Model Exams on Concept 3.2

1	Choose the correct answer:		
	1 Putting data on a weather map represents for weather pred	diction	١.
	a. gathering data b. collecting data		
	c. analyzing data d. putting it all together		
	2 If the temperature at the top of a mountain is 18 °C, the tempe	erature	5
	at its bottom might be		
	a. 18 °C b. 0 °C c. 10 °C d. 25 °C		
	3looks like a solid wall of debris and dust traveling alo horizon.	ng the	ج
	a. A flood b. A sandstorm c. A drought d. A tsund	imc	
	4 A/Anis used to measure the speed of a tornado's wi	nds.	
	a. barometer b. thermometer c. satellite d. anemo	meter	-
	Put (v) or (x): 1 Meteorologists can be completely sure of future weather cond	itions.	_
		()
	2 The desert is characterized by a hot and rainy climate.	()
	3 During climbing a mountain, the reading of the barometer increase	es.()
	4 In general, ecosystems can recover from flooding.	()
	Answer the following questions:		
	1 Write the scientific term:		
	It is an area on the dry side of a mountain range where rai	nfall is	3
	reduced. (,)
	2 Give a reason for:		
	The number of weather disasters are expected to increase	in the)
	future.		

6	Choose the correct answer:
	1 All the following are innovative ways that are used by farmers in the
	desert, except
	a. reusing waterb. using wind turbines
	c. building dams d. using solar energy
	2 The horizontal movement of air along the Earth's surface is called the
	a. air current b. atmosphere c. wind d. air pressure
	3 The sudden melting of snow and ice over a region causes
	a. earthquakes b. droughts c. hurricanes d. floods
	4 A/An is used to measure the current atmospheric pressure.
	a. barometer b. thermometer c. satellite d. anemometer
	Put (✓) or (✗):
4	1 Meteorologists collect data about the weather conditions after
	analyzing them.
	2 A clear sky can turn cloudy and rainy throughout the day. ()
	3 A rain gauge can be used to predict precipitation for the coming days.
	A rain gauge can be used to predict precipitation for the corning days.
	4 Wind is created due to the equal heating of the Earth's surface by the
	Sun. ()
	00.11
	Answer the following questions:
	1 Write the scientific term:
	They are scientists who study and predict the weather.
	()
	2 What happens if:
	You hold a paper spiral over a lighted lamp?

Choose the correct a	inswer:				
1 Applying what meteord	ologists kna	ow about the e	ffects of dif	fere	nt
landforms on weather is	s called				
a. mapping data		b. analyzing da	ta		
c. collecting data		d. putting it all t	ogether		
2is the measure	e of the am	ount of water vo	por in the ai	r.	
a. Precipitation		b. Humidity			
c. Temperature		d. Atmospheric	pressure		
3 may cause the	e drowning	of people and li	vestock.		
a. Sandstorms b. Dro	oughts	c. Floods	d. Wildfire	S	
4 A/An can be	used to cor	mpare the amou	nt of precipi	tatic	on
in two different regions.					
a. barometer b. wed	ather radar	c. rain gauge	d. anemor	nete	er
Put (√) or (×):					
1 Wind is created when le	ess dense a	r replaces more	dense air.	()
2 When warm, moist air ri	ses, it form	s clouds.		()
3 An anemometer can be	used to tro	ack thunderstorm	ns and hurric	ane	es.
				()
4 A weather satellite can	predict the	possible path of	a hurricane.	()
		'		`	
3 Answer the following	question	s:			
1 Write the scientific term	:				
It is the lack of availab	le water fo	r growing crops,	, farming an	ima	ls,
and industry.			()
2 Give a reason for:					
The sand on the beach	is hotter the	an the sea water	during the d	day.	

1	Choose the co	rrect answer:				
	1 Clouds are form	ed when	air is			
	a. dry - cooled		b. humid - heate	ed		
	c. dry - heated		d. humid - coole	d		
	2 All the following	are considered we	eather disasters, e	xcept		.
	a. droughts	b. precipitations	c. floods	d. sandst	orm	S
	3 The temperature	may reach more t	han 30 degrees in	Aswan tom	orro)W.
	This reflects the					
	a. humidity	b. air pressure	c. weather	d. climate	<u>;</u>	
	4 Meteorologist us	ses a/an	to measure the a	ir tempera	ture	
	a. barometer	b. thermometer	c. satellite	d. anemo	met	er
1	Put (√) or (×):					
\	1 Water and land	on Earth usually h	ave the same tem	nperature.	(
	2 Wind is generate	ed when cold air re	eplaces warm air.		()
	3 Ice crystals form	if the air in the cla	oud is cold enougl	Դ.	()
	4 A frozen ground	can absorb the w	rater when floodin	g occurs.	()
•	Answer the fol	lowing question	ns:			
	1 Write the scientif	fic term:				
	It is the weight o	f the air column a	bove a location.	()
	2 What happens if	:				
	The dust of a sa	ndstorm fills the ir	rigation canals?			

Choose the correct answ	ver:						
1 Ais formed when	1 Ais formed when a mountain range blocks the						
coming from a nearby ocea	ın.						
a. sandstorm - dry air	b. sandstorm - humid air						
c. rain shadow - humid air	d. rain shadow - dry air						
2 A can carry weath	ner measurement tools and also transmit						
weather data.							
a. barometer	b. weather station						
c. thermometer	d. satellite						
3pulls the heavy water droplets in clouds downward.							
	c. Humidity d. Sunlight						
4 Sandstorms are most comm	non in						
a. polar regions b. deserts	c. rainforests d. green landscapes						
2 Put (✓) or (×):							
1 In deserts, the amount of wo	ater that evaporates is less than that falls						
by precipitation.	()						
2 The solar radiation has a diff	ferent effect on water and land on Earth's						
surface.	()						
3 A tornado's wind direction is	measured by an anemometer. ()						
4 Droughts and floods have no	o harmful effects.						
3 Answer the following que	estions:						
1 Write the scientific term:							
It is the overflow of water o	n the land around riverbanks due to the						
increase in the rainfall flowin	ng on the river.						
2 Give a reason for:							
Sandstorms can be hazardo	ous to motorists or car drivers.						

Model Exams on Concept 4.1

Choose the	correct answer	•			
1 The	may be found in t	the same habitat	of lizards.	_	
a. emperor (oenguin	b. Arctic fox			
c. poison da	rt frog	d. Dorcas ga	zelle		
2 All the follow	ing are examples o	of physical adapto	ation, except		•
a. the fur co	lor	b. bird's migr	ation		
c. the fatty l	ayer	d. the thorns	on a stem		
3 All the follow	ving lifestyles (habi	its) make our bo	dies healthy	, exce	ept
a. a proper i	nutrition	b. smoking			
c. avoiding o	drinking soda	d. exercising			
4 Some of the	desert plants are sm	nall and wiry (herb	al) to	waʻ	ter.
a. store	b. absorb	c. lose	d. not lo	se	
Put (/) or (/ 1) Chrysanther night.	x): num produces flow	vers when the da	ıy is longer t	han t	he)
2 The genetic to	raits are passed dow	n from the offsprir	ng to the pare	nts.()
3 The empero	r penguin has thick	fur to keep its bo	dy warm.	()
	oices, people do no	ot have the ability	to control th	е	
environment	al factors.			()
Answer the	following quest	ions:			
1 Write the sci	entific term:				
They are ext organisms.	ernal (outside) fact	tors that influence	e the growth		_
2 Give a reaso	n for:		(
	Sphynx cat with long	g hair like a Birmo	an.		

1	Choose the co	rect answer:			
	1 Baby rabbits loo	k like their paren	ts as a result of t	he	
	a. environmenta	l factors	b. genetic fact	ors	
	c. lifestyle		d. good habits	;	
	2 All the following	plants grow in t	he Western Dese	ert in Egypt, exce	эt
	a. palms	b. Opuntia	c. pine trees	d. acacia trees	3
	3 Both Birman cats	s and Sphynx ca	ts are similar in	······································	
	a. their hairless k	oody	b. being wild c	ats	
	c. being from the	e Felis catus	<mark>d.</mark> their hair ler	ngth	
	4 All the following	are migratory bi	rds, except		
	a. falcons	b. flamingos	c. eagles	d. penguins	
	Dot (() an (V)				
Y	Put (✓) or (X):				_
	1 "Animals living in			al adaptation. ()
	2 All deserts on Ea	_		()
	3 Light is one of th	e biotic factors t	hat affect the gro	owth of plants. ()
	4 In the Arctic, cari	oou hunt wolves	that feed on gra	SS. ()
1	Answer the foll	owina auestic	ons:		
_	1 Write the scientif				_
			vhich birds move	together from or	ne.
	place to another	•		(
	2 Give a reason for	-	9-	()
			of skin without fe	eathers surroundin) (1
	its eyes.	joni rias a circle	OF SIGHT WITH OUT TO	atricis sorroundii	9
	113 0903.				

Choose the correct answer:					
1 Hot deserts are characterized by	the presence of all the following,				
except					
a. temporary ponds	b. little groundwater				
c. moderate climate	d. little rainfall				
2 The kittens of Sphynx cats inherit t	heir from their parents.				
a. silky hair b. hairless bodies	s c. hair color d. fur color				
3 Theis from the challenge	es that face migratory birds in their				
journey.					
a. availability of water	b. size of the habitat				
c. moderate weather	d. limited resting sites				
4 The Arctic fox is an example of a/an					
a. large ecosystem	b. abiotic factor				
c. environmental factor	d. biotic factor				
Put (✓) or (X):					
1 Birds migrate to areas with extrem	e climates. ()				
2 The colorful poison skin of the pois	son dart frog helps it stay safe.()				
3 All living organisms inherit their tra	its from their offspring. ()				
4 The growth of a plant toward light	is a behavioral adaptation. ()				
Answer the following question	is:				
1 Write the scientific term:					
It is a desert biome that has a cold	climate all year.				
	()				
2 What happens to:					
The plants in an ecosystem if they	receive too intense light?				

Choose the co	rect answer:				
1 Desert plants us	ually have	to keep anim	nals away.		
a. small leaves	b. thick stems	c. herbal shap	es d. prickles	6	
2are not	adapted to the e	extreme cold we	ather.		
a. Caribou	b. Arctic foxes	c. African peng	uins <mark>d.</mark> Wolves	;	
3 The growth of a	child will be affec	ted by	•		
a. the lifestyle ch	oices	b. the environ	mental factor	S	
c. the genetic fa	ctors	d. all the previ	ous answers		
4 All the following	are among the c	biotic factors in	Arctic ecosy	sten	∩S,
except					
a. light	b. trees	c. water	d. air		
Put (√) or (४):					
1 Migratory birds r	never return to the	eir homelands.		()
2 Genes are tiny st	ructures found in	the cell nucleus		()
3 Acacia trees and	Dorcas gazelles	live in the same	habitat.	()
4 Sphynx cats and	Birman cats are	different in their	hair length.	()
Answer the foll	owina auestio	ns:			
1 Write the scientif					
It is an area that	contains biotic a	nd abiotic facto	rs that intera	ct w	ith
each other.			()
2 Give a reason for	·				
Falcons and eag	les migrate to Eg	ypt in winter.			

Choose the co	rrect answer:		
1live in t	ropical rainforests	5.	
a. Caribou		b. Dorcas gazelle	es
c. Emperor peng	juins	d. Poison dart fro	ogs
2 A healthy enviror	nment is characte	rized by the prese	nce of
a. polluted water	b. no sanitation	c. diseases	d. health care
3 Desert plants usi	ually have thick st	ems or leaves to	
a. lose water	b. store water	c. absorb water	d. gain water
4 The characteristi	cs that you get fro	om your parents a	re called
a. inherited traits	3	b. environmenta	l factors
c. lifestyle choice	es	d. acquired traits	
Put (/) or (X): 1 The Western Des	sert in Eaupt is ar	important stopov	ver for miarator
birds.			(
2 Deserts may be	hot areas or cold	areas.	(
3 The Arctic fox ha	s white fur to war	m its body.	(
4 Your lifestyle cho	ices affect your h	ealth and growth.	(
Answer the foll	owing questior	ns:	
1 Write the scientif	ic term:		
It is a process t	hrough which a li	iving organism is	able to live and
survive in its env	ironment.		(
2 Give a reason for	r:		
2 3170 4 1043011 101			

Answers

Model Exams on Concept 3.2

Model Exam 1

- 1 c 2 d 3 b 4 d 1 x 2 x 3 x 4 ✓
- 3 1 Rain shadow
 - 2 Due to the global climate change.

Model Exam 2

- 1 c 2 c 3 d 4 a
 2 1 x 2 \(\sqrt{3} \) x 4 \(\sqrt{4} \)
- 1 Meteorologists
 - 2 The paper spiral will move without stopping.

Model Exam 3

- 1 d 2 b 3 c 4 c 2 1 x 2 \(\sqrt{3} \) x 4 \(\sqrt{4} \)
- 3 1 Drought
 - **2** Because the sand heats up faster than the water.

Model Exam 4

- 1 d 2 b 3 c 4 b
- 2 1 x 2 \ 3 \ 4 x
- 3 1 Air pressure (Atmospheric pressure)
 - 2 It will affect the water quality in the irrigation canals.

- 1 c 2 d 3 b 4 b
- 2 1 x 2 \ \ 3 x 4 x
- 3 1 Flooding
 - **2** Because sandstorms reduce the visibility of motorists, causing a lot of accidents.

Model Exams on Concept 4.1

Model Exam 1

- 1 1 d 2 b 3 b
- 1 x 2 x 3 x 4 ✓

4 d

- ① 1 Environmental factors
 - 2 Because the Sphynx does not have the same genetic factors for long hair as those found in the Birman.

Model Exam 2

- 1 b 2 c 3 c 4 d
- 1 / 2 x 3 x 4 x
- 3 1 Bird migration
 - 2 To cool its body fast.

Model Exam 3

- 1 c 2 b 3 d 4 d
- 1 X 2 \ 3 X 4 \
- 3 1 Antarctica
 - 2 The intense light may damage the plant parts and dry or burn them.

Model Exam 4

- 1 1 d 2 c 3 d 4 b
- ② 1 x 2 ✓ 3 ✓ 4 ✓
- (3) 1) An ecosystem
 - 2 Due to the moderate winter climate in Egypt.

- 1 d 2 d 3 b 4 a
- 2 1 x 2 \(\sqrt{3} \) x 4 \(\sqrt{4} \)
- 3 1 Adaptation
 - 2 To draw (absorb) any available water from the upper layer of the soil.

	Model	(1)	15 Marks				
1	Choose th	ne correct	answer:				
1				mospheric pr	essure is		
	a) high		b) low		c) fixed	d) reduced	
2	If the temp	oerature at	the top of the	e mountain is	5°C, so the tempo	erature at the bottom of the	
	mountain	could be		°C.			
	a) 0		b) 3		c) -5	d) 15	
3	The barome	eter is used	d to measure				
	a) air temp	erature			b) atmospheric	pressure	
	c) wind spe	eed			d) humidity		
4	Steppe eag	les migrat	e to search for	all of the foll	owing, except	······································	
	a) best cor	nditions fo	reproduction		b) find other foo	od resources	
	c) extreme	weather o	conditions		d) suitable habi	tat	
2	Complete	the follow	ving sentence	es using wor	ds between brac	kets:	
4						air density at the bottom of	f
			top of the me	, artair 15	Trair tre		
	the mount	ain.				(more – le	3SS)
2	Behind the	mountain	, that side is	•		(dry – hum	nid)
3	The Empero	or penguin	s body is cove	ered with	•	(dense feathers – dense	fur)
4	Migrant falo	cons have	6	adaptations t	hat help them mi	grate for millions of miles.	
						(physical – behavio	ral)
3	Answer th	ne followir	ng questions:				
1	Give reason	n. During s	ummer, we ca	n't stand bare	efoot on the sand.		
2	What happe	ens if the b	oodies of dese	rt lizards are o	covered with brig	ht colored scales?	

Model (2) 1 Choose the correct answer: detects the intensity and speed of precipitation and tracks of thunderstorms and hurricanes. a) Weather radar b) Barometer c) Thermometer d) Anemometer 2 The horizontal movement of air is, while the vertical movement is a) air current – wind b) wind - air current c) atmospheric pressure – air current d) wind - atmospheric pressure 3 The most weather phenomena occur at layer of atmosphere. a) troposphere b) mesosphere c) thermosphere d) stratosphere is an environmental factor that affects increasing the number of different animals species. a) The animal's body size b) The animal's age d) The plant length c) The habitat size

2 Put (√) or (X): 1 Density of air doesn't change by heating. () 2 Rain gauge measures the amount of rain in a certain area. () Most of the animals that live in polar regions have dark and light fur. () 4 Thick stem in desert plants is one of their structural adaptations. () 3 Answer the following questions 1 What happens when sand and dust accumulate on solar panels after a sand storm? List the factors that may affect the plant during photosynthesis.

Model (3) 1 Choose the correct answer: a) drought b) floods c) sand storm d) rain shadow 2 Heat transfers through by convection. a) gases and liquids b) liquids and solids c) solids and gases d) gases only a) the temperature of both water and land increases by the same rate b) the temperature of both water and land decreases by the same rate c) the temperature of land increases faster than the temperature of water d) the temperature of land decreases slower than the temperature of water 4 Dorcas deeras a behavioral adaptation to survive in the desert habitat. a) doesn't drink water for several months b) has brown fur d) has dense feathers c) has long legs 2 Write the scientific term: 1 It is the science of studying and predicting weather. (Meteorology) It is the measurement of how water vapor is present in the air. (Humidity) 3 An area that contains biotic (living) and abiotic (non-living) factors that interact together. (Ecosystem) 4 The process that helps living organisms to survive in the environment in which they live. (Adaptation)

3 Answer the following questions:

Give reason. Floods also have some advantages.

What happens when a plant doesn't receive enough light in its environment?

•

B #		 4
IVI (ode	4
		_

15 Marks

1 Choose the correct answer:					
1 All of the following are from the ways farmers in the	e desert use to improve th	e soil, except			
a) reusing water	b) use wind turbines				
c) use high-fertility and water crops	d) use solar energy				
2 The density of cold air is the dens	sity of hot humid air.				
a) more than b) less than	c) equal to	d) constant to			
3 Which of the following is an example of physical ad	aptation?				
a) Bird migration to reproduce.	b) Animals sleep during	g winter.			
c) Bull shark countershading.	d) Butterfly migration f	or warm places.			
4 Dorcas deer as a structural adaptat	ion to survive in the deser	rt habitat.			
a) doesn't drink water for several months	b) has brown scales				
c) long tail	d) has short legs				
2 Complete the following sentences using work	ds between brackets:				
1 Extreme hot temperatures may cause		sand storms – drought)			
2 Air by cooling.		(contracts – expands)			
3 Changing the color of polar animals to white in v	vinter is a	adaptation.			
(structural – behavioral)					
4 lives along the coasts of south	Africa. (Emperor pen	guin – African penguin)			
3 Answer the following questions:					
What happens to the temperature of the sea wat	er at night?				
Most of desert plants have short extended roots	near the Earth's surface.	(Give a reason).			

$\mathbf{I} \mathbf{V} \mathbf{I}$	odel (
IM		

15 Marks

1	Complete the following se	ntences using words between bracke	ets:
1	measures th	ne wind speed.	(Anemometer – Barometer)
2	Sea water absorbs heat slow	y and loses it	(slowly – quickly)
3	Dust storms	the quality of water in irrigation canals	s. (increase – decrease)
4	Antarctica is a	ecosystem.	(small – large)
2	Put (✓) or (X):		
1	Sand storms decrease visibili	ty during driving.	()
2	Convection occurs due to the	e similarity in density and temperature.	()
3	Availability of food is one of t	he factors that faces elephants, so they r	migrate to other regions. ()
4	Environmental factors do no	t affect the survival of organisms in thei	r ecosystems. ()
3	Answer the following ques	stions:	
1	What happens when we mov	ve down the mountain? (Regarding the	air density)
	-		
2	Give a reason. Poison dart fro	og has colorful poisonous skin.	

	Model (1)	15 Marks		
1	Choose the correct	answer:		
1	At the top of the mou	untains, the atmospheric pr	essure is	
	a) high	b) low	c) fixed	d) reduced
2	If the temperature at	the top of the mountain is	5°C, so the temperature	at the bottom of the
	mountain could be	°C.		
	a) 0	b) 3	c) -5	d) 15
3	The barometer is used	d to measure		
	a) air temperature		b) atmospheric pressu	re
	c) wind speed		d) humidity	
4	Steppe eagles migrate	e to search for all of the foll	owing, except	······••
	a) best conditions for	reproduction	b) find other food reso	urces
	c) extreme weather c	conditions	d) suitable habitat	
2	Complete the follow	ving sentences using wor	ds between brackets:	
1	The air density at the	top of the mountain is	than the air der	nsity at the bottom of
	the mountain.			(more – less)
2	Behind the mountain,	, that side is		(dry – humid)
3	The Emperor penguin	's body is covered with	. (der	nse feathers – dense fur)
4	Migrant falcons have	adaptations t	hat help them migrate fo	or millions of miles.
				(physical – behavioral)
3	Answer the following	ng questions:		
1	Give reason. During su	ummer, we can't stand bare	efoot on the sand.	
	- Because sand abso	rbs heat quickly and becon	nes very hot.	

2 What happens if the bodies of desert lizards are covered with bright colored scales?

- It will not be able to hide among rocks in the desert and be seen easily by other predators.

Model (2) Choose the correct answer: detects the intensity and speed of precipitation and tracks of thunderstorms and hurricanes. a) Weather radar b) Barometer c) Thermometer d) Anemometer 2 The horizontal movement of air is, while the vertical movement is a) air current – wind b) wind - air current c) atmospheric pressure – air current d) wind - atmospheric pressure 3 The most weather phenomena occur at layer of atmosphere. a) troposphere b) mesosphere c) thermosphere d) stratosphere is an environmental factor that affects increasing the number of different animals species. a) The animal's body size b) The animal's age c) The habitat size d) The plant length **2** Put (√) or (X): Density of air doesn't change by heating. (X) 2 Rain gauge measures the amount of rain in a certain area. **(/**) Most of the animals that live in polar regions have dark and light fur. (X) 4 Thick stem in desert plants is one of their structural adaptations. **(/**) 3 Answer the following questions 1 What happens when sand and dust accumulate on solar panels after a sand storm? - Solar panels stop generating electrical energy.

List the factors that may affect the plant during photosynthesis.

- Availability of water, light intensity and light duration.

Model (3)

15 Marks

	1	Choose	the	correct	answer
--	---	--------	-----	---------	--------

4	Increasing the amount of rain of	an an area that can't hold	the water may cause	
	increasing the amount of fam (JII ali alea liial Cali l'illiu	the water may cause	

- a) drought b) floods c) sand storm d) rain shadow
- 4 Heat transfers through ______ by convection.
 - a) gases and liquids b) liquids and solids c) solids and gases d) gases only
- - a) the temperature of both water and land increases by the same rate
 - b) the temperature of both water and land decreases by the same rate
 - c) the temperature of land increases faster than the temperature of water
 - d) the temperature of land decreases slower than the temperature of water
- 4 Dorcas deeras a behavioral adaptation to survive in the desert habitat.
 - a) doesn't drink water for several months
- b) has brown fur

c) has long legs

d) has dense feathers

2 Write the scientific term:

1 It is the science of studying and predicting weather.

(Meteorology)

2 It is the measurement of how water vapor is present in the air.

(Humidity)

3 An area that contains biotic (living) and abiotic (non-living) factors that interact together.

(Ecosystem)

4 The process that helps living organisms to survive in the environment in which they live.

(Adaptation)

3 Answer the following questions:

- 1 Give reason. Floods also have some advantages.
 - Because some ecosystems like River Nile depends on the periodic floods.
- What happens when a plant doesn't receive enough light in its environment?
 - The plant can't make photosynthesis so it will die and other living organisms will be affected by the decrease in the amount of food they eat.

Model (4)

15 Marks

1	Choose	the	correct	answer:
	,			

1 All of the following are from the way	s farmers in the desert use to improve the soil, except
a) reusing water	b) use wind turbines

c) use high-fertility and water crops d) use solar energy

2 The density of cold air is _____ the density of hot humid air.

a) more than b) less than c) equal to d) constant to

3 Which of the following is an example of physical adaptation?

a) Bird migration to reproduce. b) Animals sleep during winter.

c) Bull shark countershading. d) Butterfly migration for warm places.

4 Dorcas deer _____as a structural adaptation to survive in the desert habitat.

a) doesn't drink water for several months b) has brown scales

c) long tail d) has short legs

2 Complete the following sentences using words between brackets:

1 Extreme hot temperatures may cause (sand storms – drought)

2 Air ______ by cooling. (contracts – expands)

3 Changing the color of polar animals to white in winter is a adaptation.

(structural – behavioral)

4 lives along the coasts of south Africa. (Emperor penguin – African penguin)

3 Answer the following questions:

1 What happens to the temperature of the sea water at night?

- It will decrease.

Most of desert plants have short extended roots near the Earth's surface. (Give a reason).

- To draw (absorb) any available water.

Model (5)

15 Marks

1 Complete the following sentences using words between brackets:

measures the wind speed. (Anemometer – Barometer)

3 Dust storms _____ the quality of water in irrigation canals. (increase – decrease)

4 Antarctica is a _____ecosystem. (small – large)

2 Put (√) or (X):

Sand storms decrease visibility during driving. (√)

2 Convection occurs due to the similarity in density and temperature.
(X)

3 Availability of food is one of the factors that faces elephants, so they migrate to other regions. (✓)

4 Environmental factors do not affect the survival of organisms in their ecosystems.
(X)

3 Answer the following questions:

1 What happens when we move down the mountain? (Regarding the air density)

- The air density increases.

Give a reason. Poison dart frog has colorful poisonous skin.

- To hide from enemies and protect itself.

Self-Assessments

on Concept (3.2)

Self-Assessment 5	On Lesson 1	1
Continued and Continued and Section Continued and Continued and Continued and Continued Continue	011 2000011	۰

	A) Choose the co	rrect answer :	•			
		es, the least amount	of rain falls on	biomes		
	a. rainforest		c. savanna	d. desert		
2.		ed as a result of		d. doboit		
	a. condensation		7040	d. melting		
3.		n ranges often have t	_			
	a. narrow - wide	b. wet – dry	c. high - low	d. dark - ligi	ht	
(B) Give a reason for Farmers have to	or : use new ways to irriga	ate crops in desert	, such as reusing w	/ate	r.
(A	A) Put (🗸) or (X) :		property of a			_
1.	A meteorologist i	s a scientist who stud	lies the rocks of E	arth.	()
2.	The cold air is he	eavier than the hot air	:		()
3.	Farmers may ha	ve to reuse water to o	leal with the proble	em of water	Ì	•
		ally in desert lands.	i mana di care		()
) What happens i Rain falls on des	f? erts in suitable quant	ities.			
Th the	e following steps	ram shows the steps using the words bel ses – descends – co	ow:		olet	e
		Humid air blows a	against a mountair	٦.		
			\			
		Air (1),	then it (2)			
			\	rom <mark>piler ve</mark>		
		Air (3) , then	precipitation occu	irs		
	1		↓	zalez ako batea eta		
	grante to the	Air (4),	then it (5)	Anna Maria		
			¥ 22-46-5 (<u>alate</u> op 1 d alatenet		
		Air dries	s the land	AND STORY OF THE PARTY OF		

Self-Assessment 6 till Lesson 2

(A) Write the scientific term of each of the following:

- 1. A force that the atmospheric air exerts on a certain area of the Earth's surface.
- 2. It is the measure of how much water vapor is present in the air.
- A type of balloon that contains measuring instruments and that is sent into the air to find out information about weather.
- (B) Give a reason for:

Barometers are important in predicting weather.

(A) Put (\(\subset \)) or (X):

- 1. Meteorologists can be completely sure of future weather conditions.
- The temperature at the top of a mountain is less than the temperature at the bottom of this mountain.
- The weight of the air above a certain area is known as the atmospheric pressure.
- (B) What happens to ...?

Air density as we move up toward the top of a mountain.

Maged and Ramy went on a mountain climbing trip together, they took a small barometer and heavy clothes in their trip.

Look at this photo, then complete the sentences below using the words in brackets:



(temperature - pressure - density)

- 1. They used barometer in measuring atmospheric
- 2. They took heavy clothes because the air decreased as they moved upward during climbing.
- 3. It is more difficult to them to breath at the top of mountain because the air decreased as they went up.

Self-Assessment 7 till Lesson 3

(A) Correct the underlin	ned words :			
1. The amount of water v	apor in the atmosphere r	represents air density. ()
2. Anemometer is used	to measure the <u>rain</u> spec	ed. ()
The least amount of re	ain falls on rainforest bio	ome. ()
(B) Give a reason for :				
When air is cooled, it	contracts.			
② (A) Put (✓) or (x):			177	
1. Rain gauge is used to	measure the amount of	rain	()
2. By decreasing the ten			ì)
3. The temperatures of b			•	. ,
	ed to the same amount o		()
(B) What happens to?			r i	
		ome bigger and heavier.		

Choose from column (B)	what suits it in column	(A):		
(A)		(B)		
1.	a. It is used to measur	re the air temperature.	603	
2.	b. It is used to measur	re the amount of rain.		
	c. It is used to measur	e the atmospheric pressur	e.	
3.		(1) kalog fis etakangringt on		
	The second of the second of the second	e the wind speed.		
	2	rangska (neda), dig so Dili jeli balika kemang s	1 2	

Self-Assessment 8 till Lesson 4

(A) Correct the underlined words:

- 1. Floods may occur as a result of gentle rain.
- 2. Sandstorms blow up from a wet area such as desert.
- The force the atmospheric air exerts on a certain area of the Earth's surface is known as gravity.

(B) Give a reason for:

Driving in a sandstorm could be dangerous.

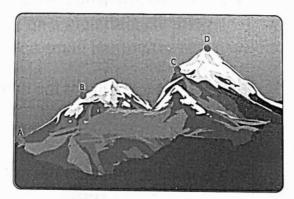
(A) Put (✓) or (X):

- 1. Floods have both harms and benefits.
- 2. The too much precipitation may cause drought.
- 3. Barometers are used to measure the speed of wind.

(B) What happens to ...?

An irrigation canal when a dust storm fills up it with dust.

B Look at this picture, then put (\checkmark) or (x):



- 1. The temperature at point (D) is higher than the temperature at point (B).
- 2. The density of air at point (A) equals the density of air at point (C).
- 3. The atmospheric pressure at point (D) is less than the atmospheric pressure at points (A), (B) and (C).

Self-Assessments

on Concept (4.1)

Self-Assessment 9 On Lesson 1

(A) Choose the correct answer:		
 Thick fur of animals which live in cold a the 	areas, is an adaptation that looks like	
a. presence of thorns on a plant stem.	 b. growth of plants toward the light. 	
 c. migration of birds to search for food. 	d. behavioral adaptations.	
2. An animal to live and survive, needs		
a. habitat only.	b. water only.	
c. habitat and food only.	d. water, food and habitat.	
3. All the following are genetic factors tha	t affect living organisms, except	
a. size of animal.	b. body color of animal.	
c. length of plant.	d. size of habitat.	
(B) Cross out the odd word:		
Size of cat – Availability of water – Bod	주는 그 그는 그 같은 그리고 가격하다고 하는 것이 하는데 하다 하고 그렇게 그 얼마나 그리고 하는데	`
	and the state of t) —–
(A) Put (V) or (X):	$a_{ij} = a_{ij} a_{ij} a_{ij} a_{ij}$ (1) and $a_{ij} a_{ij} a_{ij} a_{ij} a_{ij}$ (1)	
The more the ability of animal to adapt the chance to survive.	to the environment, the more)
Flowering plants are usually shorter that	an herbs.)
3. Small animals are completely different		í
(B) What happens if?		,
The climate in the Red Sea becomes ve	en, cold to the migratory birds	
The climate in the Ned Sea becomes vi	ery cold to the migratory birds.	
		•••••
	THE COLUMN TWO IS NOT	_
Complete the following sentences using	these words:	
(habitat – environment	al – genetic – migration)	
1. Transferring of falcons and steppe eagl	es to Egypt in winter, is known as	
2. The place where animals adapted and I	ive, is known as	
The growth and survival of living organi and factors.	sms are affected by factors	

Self-Assessment 10 till Lesson 2

(A) Choose the correct a	answer:	related to a	
Brown spots on young			
 a. environmental facto 	or.	b. genetic factor	
c. climate factor.	Transport to the same	 d. abiotic factor. 	
c. climate factor.2. All the following are bits abiotic factor.	otic factors in a	in ecosystem, exce	ptwhich
a. insect	b. grass	c. light	
3. Palm trees, emperor p	enguin are	••••	d. living organism
a. abiotic factors prese	ent in the same	habitat.	3
b. abiotic factors pres	ent in different l	nabitats.	
c. biotic factors live in	the same habit	at.	
d. biotic factors live in	different habita	its.	
(B) Give a reason for:			
Arctic fox has a thick	white fur.		
	•		
 (A) Put (V) or (X): 1. Ecosystem include no 2. Antarctic is a cold des 		only.	# # - 120 to 50
	EII DIOIDE		
		Which offeets the	
3. The light is one of the	abiotic factors	which affects the	plant's growth.
	abiotic factors	it in column (A):	plant's growth. (
3. The light is one of the (B) Choose from column	abiotic factors, (B) what suits	it in column (A) :	
3. The light is one of the (B) Choose from column (A)	abiotic factors, (B) what suits a. it is a large	it in column (A): (B) ecosystem that ha	as a cold climate.
3. The light is one of the (B) Choose from column (A) 1. Temperature 2. Caribou	abiotic factors, (B) what suits a. it is a large b. it is one of	(B) ecosystem that habitotic factors of ar	as a cold climate.
3. The light is one of the (B) Choose from column (A) 1. Temperature 2. Caribou 3. Desert	abiotic factors (B) what suits a. it is a large b. it is one of c. it is a type	(B) ecosystem that had biotic factors of ar of plants that live it	as a cold climate. n ecosystem. in desert.
3. The light is one of the (B) Choose from column (A) 1. Temperature 2. Caribou	abiotic factors (B) what suits a. it is a large b. it is one of c. it is a type d. it is one of	(B) ecosystem that had biotic factors of ar of plants that live is abiotic factors of a	as a cold climate. n ecosystem. in desert. an ecosystem.
3. The light is one of the (B) Choose from column (A) 1. Temperature 2. Caribou 3. Desert	abiotic factors (B) what suits a. it is a large b. it is one of c. it is a type d. it is one of	(B) ecosystem that had biotic factors of ar of plants that live it	as a cold climate. n ecosystem. in desert. an ecosystem.
3. The light is one of the (B) Choose from column (A) 1. Temperature 2. Caribou 3. Desert 4. Arctic region	abiotic factors (B) what suits a. it is a large b. it is one of c. it is a type d. it is one of	(B) ecosystem that had biotic factors of ar of plants that live is abiotic factors of a	as a cold climate. n ecosystem. in desert. an ecosystem.
3. The light is one of the (B) Choose from column (A) 1. Temperature 2. Caribou 3. Desert 4. Arctic region 1	abiotic factors (B) what suits a. it is a large b. it is one of c. it is a type d. it is one of e. it is a large	(B) ecosystem that had biotic factors of an of plants that live is abiotic factors of a ecosystem that had ecosystem that had a summer of the ecosystem that	as a cold climate. n ecosystem. in desert. an ecosystem. as a hot climate. 4
3. The light is one of the (B) Choose from column (A) 1. Temperature 2. Caribou 3. Desert 4. Arctic region 1	abiotic factors (B) what suits a. it is a large b. it is one of c. it is a type d. it is one of e. it is a large	(B) ecosystem that had biotic factors of an of plants that live is abiotic factors of a ecosystem that had be ecosystem that had be expected as a summer of the words had be expected as a summer of the words had be expected as a summer of the words had be expected as a summer of the words had been as a summer of	as a cold climate. n ecosystem. in desert. an ecosystem. as a hot climate. 4
3. The light is one of the (B) Choose from column (A) 1. Temperature 2. Caribou 3. Desert 4. Arctic region 1	abiotic factors (B) what suits a. it is a large b. it is one of c. it is a type d. it is one of e. it is a large	(B) ecosystem that had biotic factors of ar of plants that live is abiotic factors of a ecosystem that had be ecosystem that had be ecosystem that had be expected by the biotic factors of a constant of the biotic factors of a constant of the biotic factors.	as a cold climate. n ecosystem. in desert. an ecosystem. as a hot climate. 4
3. The light is one of the (B) Choose from column (A) 1. Temperature 2. Caribou 3. Desert 4. Arctic region 1	abiotic factors (B) what suits a. it is a large b. it is one of c. it is a type d. it is one of e. it is a large sentences by tensity – light	(B) ecosystem that had biotic factors of an of plants that live is abiotic factors of a ecosystem that had be ecosystem to be ecosystem to be ecosystem.	as a cold climate. n ecosystem. in desert. an ecosystem. as a hot climate. 4
3. The light is one of the (B) Choose from column (A) 1. Temperature 2. Caribou 3. Desert 4. Arctic region 1	abiotic factors (B) what suits a. it is a large b. it is one of c. it is a type d. it is one of e. it is a large yetensity – light in the presence the	(B) ecosystem that had biotic factors of an of plants that live is abiotic factors of a ecosystem that had ecosystem that had been supported by the biotic factors of a continuous point.	as a cold climate. n ecosystem. in desert. an ecosystem. as a hot climate. 4 etween brackets: abiotic factors) while
3. The light is one of the (B) Choose from column (A) 1. Temperature 2. Caribou 3. Desert 4. Arctic region 1	abiotic factors (B) what suits a. it is a large b. it is one of c. it is a type d. it is one of e. it is a large yetensity – light in the presence the	(B) ecosystem that had biotic factors of an of plants that live is abiotic factors of a ecosystem that had ecosystem that had been supported by the biotic factors of a ecosystem that had been supported by the biotic factors of a ecosystem that had been supported by the biotic factors of air and water, been the plant's growth.	as a cold climate. In ecosystem. In desert. In ecosystem. In as a hot climate. 4

Self-Assessment 11 till Lesson 3

(A) Put (🗸) or (X) :								
1. Offspring receive their env	vironmental factors from their parents. (
2. Inherited traits carry genes	2. Inherited traits carry genes which apper on the offspring.							
3. Birman cats have long and	d silky hair with different colors.							
(B) Give a reason for :								
Young sphynx cat doesn't	have any hair.							
(A) Complete the following	sentences :							
	ffected by factors differ from that affect the difference of their locations.							
2. Poison dart frog and arctic because they live in two di	fox are affected by different environmental factors, ifferent							
Seed I Alberta V U Seed and I I I I Describe the Control of the Co	owth to the amount of light, means a response							
of factor to abiotic fa								
(D) 14(1 - 1 1 - 2 15 - 2								
(B) What happens if?								
There is no sanitation serv	ices are available.							
Choose from column (B) what	t suits it in column (A):							
(A)	(B)							
1. Drinking more soda	a. it is an inherited trait.							
2. Difficulty to obtain food	b. it is a good lifestyle choice.							
3. Eye color	c. it is an environmental factor that affects the human growth.							
A CONTRACT OF THE PROPERTY OF	d. it is a bad lifestyle choice.							
1	2							

Model Exam on Concept (4.1)

(A) Choose the correct 1. Photosynthesis proce	answer: ess is affected by	y some environme	ental factors (5)
a. availability of wate c. availability of wate 2. Poison dart frog lives a. arctic 3. Bad habits in human a. eating healthy food c. drinking more soda 4. The Red Sea in Egyp except environ	r only. r and light. s in enviror b. antarctic lifestyle include d. a. ot includes all of	b. availability of d. the length of ment. c. desert b. doing excert d. avoid smoki	of light only. If the plants, d. tropical rain to, cises, ng.
a. marine	b. mountain	c. rainforest	d. coastal
African penguin has a its eyes. (A) Write the scientific			y rearriers around each
1. They are responsible			
in the cell nucleus.	nor determining	the body leature	, and present
A process through will survive in its environ:		ganism be able to	o live and c
It contains biotic factor each other.	ors and abiotic fa	actors that interac	et with
 They are external factoring able to control the 	tors that affect o	our health and we	might (
(B) What happens if? The environmental comigratory birds live.		es in the homelar	nd in which some
			40.00

CEI	- /	CC	CCC		17	-
SEL	.5-1	100	ESS	M = 1	NI	

The second	(A) Put (\(\sigma\) or (\(x\):	(5 mai	rks)
	1. Abiotic factors affect the growth and the adaptation of biotic factors.	()
	2. All birman cats have white, very short and silky hair.	()
	Availability of water is a genetic factor that affects the growth of trees as shrubs in an ecosystem.	nd ()
	4. The amount of light affects the growth of plants.	()
	(B) Choose from column (P) what suits it in column (A)		

from column (B) what suits it in column (A) :

(A)	E COORT AND C. COORT COORT (B) of the coort a sylo (C
1. Acacia tree	a. it has sandy-colored scales.
Poison dart frog	b. it has thick white fur.
3. Emperor penguin	c. it lives in antarctic.
4. Arctic fox	d. it lives in desert.
1 1 1 1 1 1 1 1	e. it lives in tropical rain forest.

1. 3. 4.

1. If a finished program of the character of the control of the



March Questions Bank



Question 01

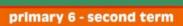
Choose the correct answers



		N. P. J.	7.0			111	
	e barometer is	used	to measure	30			
a	temperature.	(b)	atmospheric pressure.	0	mass	(1)	length
	the tempera <mark>tur</mark> och <mark>°</mark> C at				untain is 15°C,	this r	means it mag
(3)		(b)	25	©	20	d	2
		gy tha	at flows from a	a hot	object to a cold	d obje	ect is called
) (a)	<mark>e</mark> nergy. sound	(b)	thermal	(c)	potential	(d)	magnetic
) Ex					he following, ex	_	The state of the s
	drought				sandstorms		sunrise
He	at transfers fro	m the	object	to th	e object		
(3)	big - small	(b)	small - big	0	hot - cold	d	cold - hot
A Transition	nvection is a w			of he	at in liquids and	d gas	es due to th
(3)	mass - color.	(b)	shape - volume.	0	temperature - density.	d	color - temperature
W	ater vapor in th	e atn	nosphere can	conc	lense and form		
(a)	air	(b)	clouds	0	sunlight	(1)	wind
Dr	ough <mark>t affects a</mark>	ll the	following, ex	cept			
(1)	people	(b)	plants	0	buildings	d	animals
) Th	e density of co	ld dry	air is t	hat	of hot humid air	121	
(1)	more than	(b)	equal to	0	less than	d	similar to
·	is used	to m	easure the sp	eed	of tornado's wii	nds.	
a	Barometer	(b)	Thermometer	0	Satellite	d	Anemomete
	ne change of wa	ater fi	rom liquid stat	te to	gas state is kno	wn a	s
a		(b)	melting	(c)	condensation	(d)	freezing



science





(12)	looks horizon.	like a so	olid wall of de	bris a	ind dust trave	ling al	ong the	
W	A flood	(b)	A sandstorm	0	A drought	(d)	A tsunami	
	The increase in	the am	ount of rain m	nay c	ause			
(13)	flooding	(b)	drought	©	sandstorm	d	dust storm	
0	A rain shadow i	is an are	ea that is form	ed b	ehind a	700		
(1)	(a) tree	(b)	mountain	©	building	d	bridge	
	When air is hea	ted, its	chan	iges.				
(15)	(a) mass	(b)	smell	©	color	d	density	
	Question 02	put	(true) or (f	false)		3	
1	Precipitation o	ccurs af	ter condensa	tion	of water vapo	r in the	e sky.)
2	Sand cools dov nighttime.	vn in a	shorter time t	han s	sea water duri	ng	35 Cu)
3	When the air is	cooled	l, it rises up.				25)
4	Heavy rain may	y cause	drought.				30 10)
5	When rain doe	sn't fall	, soil may dry	and	plants may die	e. 3)
6	The rain never	falls on	deserts.				1 2	1
7	Cold air has mo	ore den	sity than hot a	air.			1)
8	Reusing water	is a use	ful way to irri	gate	crops in deser	t farm	s. ()
9	Sandstorms blo	ow up fi	rom a dry area	a suc	h as s <mark>eas and</mark>	ocean	s ()
10	Sola <mark>r energy</mark> ar farms.	nd wind	turbines can	be u	sed to operate	e dese	rt ()
1	Transfer of hea	t by co	nvection occu	ırs in	solids, liquids	and g	ases. ()
12	Sandstorms de	crease t	the visibility d	uring	g driving cars		7 JEP)
13	The sand absor	rbs hear	t slower than	wate	er during dayti	me.	J 13)
14	Floods may cau	use dea	th of people a	nd a	nimals		-0)
(15)	Hot air rises ab	ove col	der air.				550 1 B	1

Question 03

complete the following sentences

U	Hot all rises up as it rias derisity triair cold all.	
2	Sea water absorbs heat slowly and loses it	
3 4 5	When the hot and humid air meets the cold and dry air, the The horizontal movement of air is called	the vertical
6	At night, the sand on the seashore cools than the	sea water.
7 8 9 10	The density of hot soup is than that of cold soup. A thermometer is used to measure, while a barom measure The side of coastal mountain ranges in which air moves up mountain is the side, while the other side is the Gases and liquids expand by and contract by coo	when hitting aside.
200		
1	A phenomenon in which the condensed water vapor falls on the Earth's surface in the form of rain, snow, sleet or hail.	
2	It is the weight of the air above an area.	1 2
3	A side of mountain ranges at coastal regions in which the rain shadow phenomenon occurs.	1
4	A side of mountain ranges at coastal regions that face the coast.	1
5	A device used to measure atmospheric pressure. It is a natural phenomenon that occurs when the level of water in a river increases until it overflows its banks.	
8	A device used to measure temperature. A scientist who studies the atmosphere to understand Earth's weather.	L To The State of
9	A phenomenon in which very strong winds blow up dust that reduces the visibility during driving cars. A scientist who studies the Earth's atmosphere and	
10	forecasts the weather	10 SE



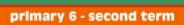
Question 05

Give reason for each of the following

1	Desert farming	g faces many difficulties.	
2	Extreme weath world.	her became more stronger in many places around	the
3	Sometimes pe	ople prefer to live in desert land instead of cities.	46 46
4		nay not be able to stand barefoot on the sand of a	 beach ii
5		up, while cold air moves down.	\$6
6	Floods have so	ome benefits.	325
7		ated, it expands.	*
8	Sandstorms ha	ave harmful effects on human health.	T i
	Question 06	What happens if?	
1	We boil wate water and col	er in a pot on the stove. (Concerning the movement of water).	nt of hot
2	2. The tempe	rature of a desert sand at night.	# 360 # 360



science

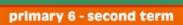




3	Buildings whe	n th	ey are subje	cted t	o strong floods.		
	<u> </u>	E D		16	50 y	740°	<u> </u>
4	The atmosphe mountain.	ric p	ressure, as v	ve mo	ove up toward the	top	of a
8	The temperate			le a b	eaker if we put it i	unde	er a lighted
9	Solar panels w						5.25 Jan 5.2
10					rd the bottom of a	mo	untain.
	Question 01	Cř	noose the c	orre	ct answers		CONCEPT 4.7
	Transferring of	gene	tic factors h	apper	ns in		75
(a humans only	(b)	animals only	©	Humans,animals	(1)	h <mark>umans,</mark> a <mark>nimals,p</mark> lants
	Dorcas g <mark>azelle l</mark> i	ives i	n				
) (a tropical area	(b)	desert area	0	north pole.	d	south pole
0	Arctic fox has	D	to warm its	bod	y		
) (colorful poisonous skin	b	sandy- colored scales	•	thin white fur	d	thick white fur
)	Acacia tree and	arcti	c fox live in .	550	environment.		
(desert	(b)	arctic	0	rain forest	d	two different
	The adaptation to	hat i	is related to	the b	ody structure of a	livin	g organism, is
3	structural adaptation.	(b)	behavioral adaptation	©	homeland	d	stopover
	Each environme	nt o	n planet Ear	th ha	s specific		
(climate only.	(b)	plants only.	©	animals only	d	climate, plants and animals.





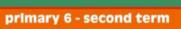




7	Ge	nes are tiny s	truct	ures that fou	ınd i	n		5 to 12	
O	(3)	the cell nucleus.	(b)	the cell membrane	©	the cell wall.	d	mitochondria	
8	Th				of th	e following enviro	onme	ents, except	
	(1)	marine	(b)	mountain	©	rain forest	d	coastal	
9	Po	ison dart frog	live	s in en	viron	ment.			
	(1)	arctic	b	antarctica	©	desert	d	tropical rain forest	
0	Birr	man cats h <mark>av</mark> e	e						
(10)	(a)	very fi <mark>ne</mark> hair	(b)	long and silky hair	0	no hair	d	black feathers.	
(11)	All	the following	g are	biotic factor	s, ex	cept			
\cup	(1)	animals	(b)	insects	0	precipitation	d	grasses	
	All	the following	g are	inherited tra	its ir	plants, except			
(12)	(a)	le <mark>av</mark> es color	(b)	leaves shape.	©	length of stem.	d	length of ears.	
	Ab	iotic factors i	n an	ecosystem in	clud	e			
(13)	(3)	animals and air.	(b)	grasses and soil.	©	living organisms	d	nonliving things.	
	Spl	hynx cats and				rent in the	6		
(14)	(3)	number of eyes.	(b)	number of ears.	0	number of legs.	(d)	length of hair	
(15)	Plants respond to the amount of they receive daily.								
(19)	a	light only	(b)	dark only	©	light and dark	d	biotic factors	
	Que	estion 02	pı	ıt (true) oı	r (fa	ilse)	jo .	550 46	
1	lt	is easy for an	imals	to live in the	e des	ert environments	3		
2	Di	/92				different types of	f plar	nts and ()	
3	AI	l living organ	isms	inherited tra	its fr	om their parents.		1	
4	Th	ne skin of pois	on d	lart frog canr	not p	rotect it from pred	dator	s. 🥍 (🚮)	
5	In	herited traits	not a	affect the stru	uctui	e of living organis	sms.	0 1	





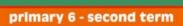




6		of water is a genetic factor that affects the growth of rubs in an ecosystem.	(p					
7	Animals mig	grate from one place to another seasonally.	10						
8	Acacia trees	and palms are adapted to live in desert environment.	(
9	Birds migrat	te to areas that have no food or water.	16						
10	Ecosystem o	ontains biotic factors and abiotic factors.	1						
Sphynx cat doesn't have any hair or have only very fine hair.									
Thorns on a plant stem, is an example of structural adaptation.									
13	Ecosystems	include living organisms only.	12	0					
14	Your health	will be positively affected, if you drink unclean water	1						
15									
16									
17	The amount	The amount of light affects the growth of plants.	٠ (ا						
18	Abiotic facto	ors of an ecosystem can eat, breathe and grow.	10	9					
19	Dorcas gaze	elle can live in both desert area and semidesert area.	1						
20	Deserts may	be hot areas or cold areas.	63	ő,					
	Question 03	complete the following sentences							
① ②	All living and	em contains factors and factors. anisms inherited factors which transferred feir offspring.	rom						
3	9 9	isms of an ecosystem include humans, animals and							
4	Hot deserts h surface.	nave a little amount of far below the ground	1						
5	Both of envir			f					
6	tra	our earlobes hang and the length of your fingers are tw aits controlled by that are found in the cell nuc		K					
0		plants have thick leaves to store	10						
8	cli		in						
9	ADIOTIC TACTO	rs include all things.							



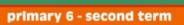






in ca	esn't have the genetic factor for at. ants can store water in theirand	
Both of the stopovers in Eg	River are two ypt for migratory birds. e of the flower are two inheritedii	important
in Egypt.	te palms and acacia trees live in thehelps them to search for differentto live in.	
The type of cat asca African pengu	in has a circle of skin that doesn't have any	ts, is known
live and survive	nd are the basic needs for living or	ar To
Question 04	write the scientific term for each of the fo	llowing
	write the scientific term for each of the fo	llowing
The factors that		llowing (
The factors that A type of cats thair. A process through	t include nonliving things in an ecosystem.	llowing ((
The factors that A type of cats that. A process through the factors that t	t include nonliving things in an ecosystem. that doesn't have the genetic factor of long ugh which the living organism be able to	llowing
The factors that A type of cats thair. A process throughte and survive It is a desert bic	t include nonliving things in an ecosystem. That doesn't have the genetic factor of long ugh which the living organism be able to the in its environment.	llowing
The factors that A type of cats thair. A process through the and survive It is a desert bid. The factors that They are extern	t include nonliving things in an ecosystem. that doesn't have the genetic factor of long ugh which the living organism be able to in its environment. ome that has a cold climate all the year.	llowing
The factors that A type of cats thair. A process throughter and survive It is a desert bid. The factors that They are externinght not able It is a type of be	t include nonliving things in an ecosystem. That doesn't have the genetic factor of long ugh which the living organism be able to in its environment. The that has a cold climate all the year. It include living organisms in an ecosystem. In all factors that affect our health and we to control them. The ehavioral adaptation in which animals move	llowing
The factors that A type of cats thair. A process throughter and survived It is a desert bid. The factors that They are extern might not able It is a type of bin a certain seas A type of cats that I have a certain seas A type of cats the same and type of type of cats the same and type of cats the same and type of	t include nonliving things in an ecosystem. That doesn't have the genetic factor of long ugh which the living organism be able to in its environment. The that has a cold climate all the year. It include living organisms in an ecosystem. In all factors that affect our health and we to control them.	llowing
The factors that A type of cats thair. A process throughter and survived It is a desert bid. The factors that They are extern might not able It is a type of bin a certain seas A type of cats to colors. An important seas and the seas are the seas and type of cats to colors.	t include nonliving things in an ecosystem. That doesn't have the genetic factor of long augh which the living organism be able to in its environment. The that has a cold climate all the year. It include living organisms in an ecosystem. In all factors that affect our health and we to control them. The ehavioral adaptation in which animals move son from one place to another. That have long, silky hair with different stopover in Egypt for migratory birds, that	llowing
The factors that A type of cats thair. A process throughter and survive It is a desert bid. The factors that They are externinght not able It is a type of bin a certain seas A type of cats to colors. An important stincludes marine.	t include nonliving things in an ecosystem. That doesn't have the genetic factor of long ugh which the living organism be able to in its environment. The inits environment and the year. The include living organisms in an ecosystem. In all factors that affect our health and we to control them. The inertial adaptation in which animals move son from one place to another. That have long, silky hair with different and the intertion of the initial and mountain environments. In the insible for determining the body feature, and	llowing





		1
2	أ.محمود سعيد	

parents to their lt is a change it to help it survivolt contains bid with each other lt is a change it	r offspring. In the behaviors or acts of a living organism we. tic factors and abiotic factors that interact er. In the body structure of living organisms that	
helps them to	Give reason for each of the following	
		g time.
		3550
Small dorcas	gazelle is similar to its parents.	25 25 2
Most of dese	rt plants have short extended roots near the E	arth's surface.
Falcons and	eagles migrate to Egypt in winter.	
A birman kitt	en has a long <mark>and silky hair.</mark>	n n
		eather around
Birds migrate	from one place to another place.	85 M
Poison dart f	rog has colorful poisonous skin.	35 B
Your lifestyle	choices affect your health.	45 55 J
	parents to theil It is a change is to help it survive It contains bid with each other It is a change is helps them to some plants in Sphynx cat downward and some plants in Sphynx cat downward from the second so	It is the factor that controls which trait gets inherited from parents to their offspring. It is a change in the behaviors or acts of a living organism to help it survive. It contains biotic factors and abiotic factors that interact with each other. It is a change in the body structure of living organisms that helps them to survive. Question 05 Give reason for each of the following Some plants in deserts produce seeds that can live for a lon Sphynx cat doesn't have long hair. Small dorcas gazelle is similar to its parents. Most of desert plants have short extended roots near the Extended roots and eagles migrate to Egypt in winter. A birman kitten has a long and silky hair. African penguin has a circle of skin that doesn't have any fee each of its eyes. Birds migrate from one place to another place. Poison dart frog has colorful poisonous skin. Your lifestyle choices affect your health.







	Question 06	What happens if?
)	The living organization	ganisms in an ecosystem, if water and light are not
)	The genetic f	actor of hairless body trait is transferred from sphynxeir offspring.
)	to N	an ecosystem, if they receive too intense light.
)		nental conditions change in the homeland in which s
)	Two similar p	lants, if they are exposed to the same intensity and pht.
)	The inherited	I traits are transferred from desert plants to another

انتهت الأسئلة مع أطيب الامنيات بالنجاح والتوفيق





Answers





March Questions Bank



Question 0°	Cho	ose the cor	rect	answers	194	3.2
	eter is used	to measure	96	36		
air temperat		atmospheric pressure.	©	mass	d	length
		he bottom of op of this mo		untain is 15°C, n.	this i	means it may
(a) 30	(b)	25	©	20	d	2
The form of		at flows from	a hot	object to a co	d obj	ect is called
sound	(b)	thermal	0	potential	d	magnetic
Extreme we	ather cond	ditions includ	e all th	ne following, <u>e</u>	хсері	196
(a) drough	t 📵	flooding	0	sandstorms	d	<u>sunrise</u>
Heat transfe	ers from the	e object	to th	e objec	t.	
a big - sm	all (b)	small - big	0	hot - cold	d	cold - hot
Convection difference in	and the same of the same of the same of		of hea	at in liquids an	d gas	es due to the
a mass - co	olor.	shape - volume.	©	temperature - density.	d	color - temperature
Water vapo	r in the atr	no <mark>sphere can</mark>	cond	ense and form	ıı	
air	(b)	clouds	0	sunlight	d	wind
Drought aff	ects all the	following, ex	xcept			
people	(b)	plants	0	buildings	d	animals
The density	of cold dry	/ air is	that c	of hot humid a	ir.	
a more th	nan (b)	equal to	©	less than	d	similar to
50 B	s used to m	neasure the si	need o	of tornado's w	inds	

(b) Thermometer **(c)** Satellite

The change of water from liquid state to gas state is known as

b melting



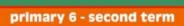


evaporation

process.

condensation d freezing

Anemometer





(D)	looks	like a sc	olid wall of del	bris a	and dust travel	ling al	ong the
W	A flood	(b)	A sandstorm	©	A drought	d	A tsunami
	The increase in	the am	ount of rain m	nay c	ause		
(13)	a <u>flooding</u>	(b)	drought	©	sandstorm	d	dust storm
	A rain shadow	is an ar	ea that is form	ed b	ehind a	100	
(1)	(a) tree	(b)	mountain	©	building	d	bridge
	When air is hea	ted, its	chan	ges.			
(15)	(a) mass	(b)	smell	©	color	d	density
	Question 02	put	(true) or (f	false)		30 m
1	Precipitation o	ccurs af	ter condensa	tion (of water vapoi	in the	sky.
2	Sand cools dov						
3	nightt <mark>i</mark> me. When the air is	cooloc	l it rices up				×
4 5	When rain doe		_	and	nlants may die	and the same	
6	The rain never			ciria	plants may die	y m	×
7	Cold air has mo			air.			
8	Reusing water				crops in deser	t farm	s.
9	Sandstorms blo						
10	Solar energy a	1					T
11	Transfer of hea	at by co	nvection occu	ırs in	solids, liquids	and g	ases. 🗶
12	Sandstorms decrease the visibility during driving cars						
13	The sand abso	rbs hea	t slower than	wate	er during dayti	me.	X X
14	Floods may car	use dea	th of people a	nd a	nimals		
15	Hot air rises ab	ove col	der air.				S 3 V







Question 03

complete the following sentences

- Hot air rises up as it has <u>less</u> density than cold air.
- Sea water absorbs heat slowly and loses it slowly.
- When the hot and humid air meets the cold and dry air, the hot air rises.
- The horizontal movement of air is called <u>wind</u> whereas the vertical movement of air is called <u>air current</u>.
- The amount of rain that falls on deserts is <u>less</u> than that which falls in other biomes.
- 6 At night, the sand on the seashore cools faster than the sea water.
- The density of hot soup is less than that of cold soup.
- A thermometer is used to measure <u>temperature</u>, while a barometer is used to measure <u>atmospheric pressure</u>.
- The side of coastal mountain ranges in which air moves up when hitting a mountain is the wet side, while the other side is the dry side.
- Gases and liquids expand by heating and contract by cooling.

Question 04

write the scientific term for each of the following

- A phenomenon in which the condensed water vapor falls on the Earth's surface in the form of rain, snow, sleet or hail.
- It is the weight of the air above an area.
- A side of mountain ranges at coastal regions in which the rain shadow phenomenon occurs.
- A side of mountain ranges at coastal regions that face the coast.
- 5 A device used to measure atmospheric pressure.
- It is a natural phenomenon that occurs when the level of water in a river increases until it overflows its banks.
- A device used to measure temperature.
- A scientist who studies the atmosphere to understand Earth's weather.
- A phenomenon in which very strong winds blow up dust that reduces the visibility during driving cars.
- A scientist who studies the Earth's atmosphere and forecasts the weather

Precipitation

Atmospheric pressure

A dry side

A wet side

Barometer

Flooding

Thermometer

Meteorologist

Dust storm

Meteorologist





Question 05

Give reason for each of the following

- Desert farming faces many difficulties.

 <u>Because the desert's climate is hot and the amount of water is small.</u>
- 2 Extreme weather became more stronger in many places around the world.

 Due to global climate change.
- 3 Sometimes people prefer to live in desert land instead of cities.

 Due to the fast population growth in cities.
- At noon, we may not be able to stand barefoot on the sand of a beach in summer, but we can swim in the sea water.

Because sand is heated up faster than water.

- Hot air moves up, while cold air moves down.
 Because the hot air has low density, while the cold air has high density.
- 6 Floods have some benefits.

 Because some ecosystems depend on floods such as ecosystems along the Nile.
- When air is heated, it expands.

 Because the molecules of air move away from each other.
- 8 Sandstorms have harmful effects on human health.

 Because sandstorms harm the human eyes and respiratory system.

Question 06

What happens if?

We boil water in a pot on the stove. (Concerning the movement of hot water and cold water).

Hot water moves up and cold water falls down.

2. The temperature of a desert sand at night.

The temperature of a desert sand will decrease.





primary 6 - second term



3 Buildings when they are subjected to strong floods.

They may be damaged by moving or breaking them.

The atmospheric pressure, as we move up toward the top of a mountain.

The atmospheric pressure decreases.

8 The temperature of water inside a beaker if we put it under a lighted lamp for few minutes.

The temperature of water will increase.

Solar panels when dust accumulates on them.

Solar panels stop generating energy.

Air density, as we move down toward the bottom of a mountain.

Air density will increase.

Ouestion 01

Choose the correct answers



Transferring of genetic factors happens in

- a humans only
- animals only
- Humans, animals
- d humans, animals, plants

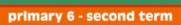
- Dorcas gazelle lives in
 - (a) tropical area
 - **b** desert area
- o north pole.
- **d** south pole

Arctic fox has to warm its body.

- (a) colorful poisonous
- sandycolored scales
- c thin white fur
- d thick white fur
- Acacia tree and arctic fox live in environment.
 - desert
- (b) arctic
- c rain forest
- d two different
- The adaptation that is related to the body structure of a living organism, is known as
 - a structural adaptation.
- behavioral adaptation
- homeland
- stopover
- 6 Each environment on planet Earth has specific
 - climate only.
- plants only.
- animals only
- d <u>climate, plants</u> <u>and animals.</u>





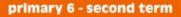




(1) (2)		/92				ert environments different types of	blar	nts and		
	n Jil	estion 02		ıt (true) oı		a) 5 300	1			
9	(a)	light only	(b)	D Jaco	(a)	light and dark	(1)	biotic factors		
(15)	_					they receive da	_			
(14)	(3)	number of eyes.	(b)	number of ears.	©	number of legs.	d	length of hai		
3	Spl	Sphynx cats and birman cats are different in the								
13	(a)	animals and air.	(b)	grasses and soil.	©	living organisms	d	nonliving things.		
	M	color iotic factors i	n an	shape.				ears.		
12	a	leaves		leaves	©	length of stem.		length of		
	_		_			plants, except	_	grasses		
11)	_	the following	g are	biotic factor	_	<u>precipitation</u>	(d)	drasses 3		
(10)	(a)	very fi <mark>ne</mark> hair	(b)	long and silky hair	©	no hair	d	black feathers.		
	Birr	man cats h <mark>av</mark> e	e							
)	(a)	arctic	(b)	antarctica	0	desert	d	tropical rain forest		
(9)	Poi	ison dart frog	live	s in en	/iron	ment.	300			
8)	(a)	environm			5 0	rain forest	(d)	coastal		
	(a) The	nucleus. e Red Sea in E	Eavo	membrane t includes all	170	the cell wall. ne following enviro	onme	mitochondria ents. except		
U	~	the cell		the cell	7 _			35 25		
7	Ge	nes are tiny s	truct	ures that fou	ınd i	n				









6	Availability of water is a genetic factor that affects the growth of
O	trees and shrubs in an ecosystem.



Animals migrate from one place to another seasonally.



Acacia trees and palms are adapted to live in desert environment.

1

Birds migrate to areas that have no food or water.



Ecosystem contains biotic factors and abiotic factors.



(1) Sphynx cat doesn't have any hair or have only very fine hair.



12 Thorns on a plant stem, is an example of structural adaptation.



Ecosystems include living organisms only.



Your health will be positively affected, if you drink unclean water

×

(15) All birman cats have white, very short and silky hair

×

Genes carry inherited traits from parents to their offspring.

The amount of light affects the growth of plants.

M

(18) Abiotic factors of an ecosystem can eat, breathe and grow.

1.

19 Dorcas gazelle can live in both desert area and semidesert area.

V

Deserts may be hot areas or cold areas.

1

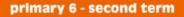
Question 03

complete the following sentences

- 1 Any ecosystem contains biotic factors and abiotic factors.
- All living organisms inherited genetic factors which transferred from parents to their offspring.
- 3 Living organisms of an ecosystem include humans, animals and plants.
- Hot deserts have a little amount of groundwater far below the ground surface.
- Both of environmental factors and genetic factors affect the growth of living organisms.
- The way of your earlobes hang and the length of your fingers are two inherited traits controlled by genes that are found in the cell nucleus.
- Some desert plants have thick leaves to store water.
- Thick fur is an example of structural adaptation for animals that live in cold climate.
- Abiotic factors include all <u>nonliving</u> things.









- Sphynx cat doesn't have the genetic factor for long hair which is found in birman cat.
- Some desert plants can store water in their <u>leaves</u> and <u>stems</u>.
- Both of the Red Sea and the Nile River are two important stopovers in Egypt for migratory birds.
- (3) Color and place of the flower are two inherited <u>traits</u> in plants.
- Some plants like palms and acacia trees live in the <u>desert</u> environment in Egypt.
- Bird migration helps them to search for different food sources and suitable habitats to live in.
- light, air and water are basic needs for plants to grow.
- The type of cats that inherits its hairless body from its parents, is known as sphynx cats.
- African penguin has a circle of skin that doesn't have any feathers around each of its eyes.
- Food, water and <u>habitats</u> are the basic needs for living organisms to live and survive.
- Plants respond to the amount of <u>light</u> and dark they receive daily to grow.

Question 04

write the scientific term for each of the following

- The factors that include nonliving things in an ecosystem.
- A type of cats that doesn't have the genetic factor of long hair.
- A process through which the living organism be able to live and survive in its environment.
- It is a desert biome that has a cold climate all the year.
- **5** The factors that include living organisms in an ecosystem.
- They are external factors that affect our health and we might not able to control them.
- It is a type of behavioral adaptation in which animals move in a certain season from one place to another.
- A type of cats that have long, silky hair with different colors.
- An important stopover in Egypt for migratory birds, that includes marine, coastal and mountain environments.
- They are responsible for determining the body feature, and present in the cell nucleus.

Abiotic factors

Sphynx cats

<u>Adaptation</u>

Antarctic region

Biotic factors

Environmental factors

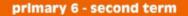
Migration

Birman cats

The Red Sea

Genes







It is the factor that controls which trait gets inherited from parents to their offspring.

Genetic factor

It is a change in the behaviors or acts of a living organism to help it survive.

Behavioral adaptation

It contains biotic factors and abiotic factors that interact with each other.

Ecosystem

It is a change in the body structure of living organisms that helps them to survive.

Structural adaptation

Question 05

Give reason for each of the following

- Some plants in deserts produce seeds that can live for a long time.

 Because in deserts there are shortage of rain fall for a long time.
- 2 Sphynx cat doesn't have long hair.

 Because it doesn't have the genetic factor for long hair.
- 3 Small dorcas gazelle is similar to its parents.

 Because they get some genetic factors from their parents.
- Most of desert plants have short extended roots near the Earth's surface.

 To absorb any available water and to catch the smallest drops of dew.
- Falcons and eagles migrate to Egypt in winter.

 Because Egypt in winter has a moderate climate condition.
- A birman kitten has a long and silky hair.

 Because it inherits this trait from its parents.
- African penguin has a circle of skin that doesn't have any feather around each of its eyes.

To help its body cool fast in hot climate.

- Birds migrate from one place to another place.
 <u>To search for the best conditions that help them reproduce and preserve their species.</u>
- Poison dart frog has colorful poisonous skin.

To protect itself from predators.







Your lifestyle choices affect your health.

Because it depends on your behavior which may be good habits or bad habits.

Some plants which live in desert environment have long roots.

To get the deep groundwater.

12 Lizard body is covered with sandy-colored scales.

To hide among rocks in desert.

Question 06

What happens if?

The living organisms in an ecosystem, if water and light are not available.

Livings organisms can't survive and will die.

The genetic factor of hairless body trait is transferred from sphynx cats parents to their offspring.

The trait of hairless body appears on the offspring.

The plants in an ecosystem, if they receive too intense light.

The too intense light may damage the plant's parts and cause their drying or burning.

The environmental conditions change in the homeland in which some migratory birds live.

They will migrate to another suitable habitat

Two similar plants, if they are exposed to the same intensity and duration of light.

The two plants will grow with the same rate.

The inherited traits are transferred from desert plants to another through generations.

The desert plants are more adapted to survive in extreme desert conditions.

انتهت الأسئلة مع أطيب الامنيات بالنجاح والتوفيق







February Revision

* (1) Write the scientific term:

Mr. Ahmed ElBasha

1)	A scientist who studies the atmosphere to understand Earth's weather.	
2)	A side of mountain ranges at coastal regions in which the rain shadow phenomenon occurs.	
3)	A device used to measure atmospheric pressure.	
4)	A device used to measure temperature.	7
5)	It is the weight of the air above an area.	
6)	A phenomenon in which the condensed water vapor falls on the Earth's surface in the form of rain, snow, sleet or hail.	
7)	It is a natural phenomenon that occurs when the level of water in a river increases until it overflows its banks .	
8)	A process through which the living organism be able to live and survive in its environment	
9)	It is a type of behavioral adaptation in which animals move in a certain season from one place to another	
10)	It is a change in the body structure of living organisms that helps them to survive.	
11)	The factors that include living organisms in an ecosystem	
12)	The factors that include nonliving things in an ecosystem.	

***(2)** Choose the right answer:

1.	1. Desert farming depends on the maximum use of as its quantity is very small.							
	a. sand	b. sunlight	c. water	d. winds				
2.	At the top of the mou	untain, the atmospheric	pressure is and	the temperature is				
	compared	to the bottom of the mo	untain.					
	a. lower- lower		b. higher - higher					
	c. lower - higher		d. higher - lower	α				
3.	The density of cold d	lry air is that	of hot humid air.					
	a. more than	b. equal to	c. less than	d. similar to				
4.	A rain shadow is an	area that is formed beh	ind a	S				
	a. tree.	b. mountain.	c. building.	d. bridge.				
5.	If the temperature at	t the bottom of a mount	ain is 15°C, this means it n	nay reach°C				
	at the top of this mou							
	a. 30	b. 25	c. 20	d. 2				
6.	The change of water	from liquid state to gas	state is known as	process.				
	a. evaporation	b. melting	c. condensation	d. freezing				
7.	Water vapor in the a	tmosphere can conden	se and form					
	a. air.	b. clouds.	c. sunlight.	d. wind.				
8.	The barometer Is us	ed to measure						
	a. air temperature.	b. atmosphe	eric pressure.					
	c. mass.	d. length.						
9.	Instruments like the	rmometers and barom	eters can be carried into th	ne atmosphere to				
	measure weather cor	nditions from different a	ltitudes by using all of the	se tool, except				
	a. satellites.	b. weather b	palloons.					
	c. airplanes.	d. cars .						
10.	. Heat transfers from	the object to	the object.					
	a. big - small	b. small - b	ig c. hot- cold	d d. cold - hot				
11.	Land heats up	and cools down	compared to that o	of water.				
	a. quickly - quickly		b. slowly - slowly					
	c. quickly- slowly		d. slowly- quickly					
12.		of the sand in a desert is	50°C at noon, its tempera	ture may reach				
	°C at night.	b. 60	c. 70	d. 80				
13.			ject to a cold object is calle					
	a. sound	b. thermal	c. magnetic	d. potential				

14. Heat transfers by co	nvection in	. and					
a. liquids - gases.		b. solids - liquids.					
c. solids - gases.		d. liquids - space.					
15. When convection oc	curs in the atmosphe	re					
a. cold air rises up and	warm air falls down.	b. warm air rises up	and cold air falls down.				
c. both cold air and wa	rm air rise up.	d. both cold air and v	warm air fall down.				
16. Heat is transferred	through the atmosph	ere by					
a. convection.	b. conduction.	c. reflection.	d. absorption.				
17. When air is heated, it	s changes.	K					
a. mass	b. smell	c. color	d. density				
18. Extreme weather co	nditions include all tl	ne following, except	7				
a. drought.	b. flooding.	c. sandstorms.	d. sunrise.				
19. The increase in the am	nount of rain may caus	se					
a. flooding.	b. drought.	c. sandstorm.	d. dust storm.				
20. Floods may occur as a	20. Floods may occur as a result of and						
a. gentle rain - melting	of snow.	b. heavy rain - meltin	g of snow.				
c. gentle rain - freezing	of water.	d. heavy rain - evapor	ration of water.				
21. When air is heated, i	ts changes.	. ()					
a. smell	b. color	c. density	d. mass				
22. Dorcas gazelle lives i	in	9					
a. tropical area.	b. desert area.	c. north pole.	d. south pole.				
23. The adaptation that	is related to the body	y structure of a living organism	, is known as				
a. structural adaptation		b. behavioral adaptation.					
c. homeland.		d. stopover.					
24. Birds migrate to sea	rch for all of the follo	owing, except					
a. best conditions for re	eproduction.	b. different food reso	ources.				
c. another suitable hab	itat.	d. another unsuitable climate.					
25. Migration of animals	to search for food, is	considered as					
a. a type of structural a	daptation only.	b. a type of behavior	al adaptation only.				
c. structural and behav	ioral adaptations.	d. a way to find more	e predators.				
26. Poison dart frog lives	s in enviro	nment.					
a. arctic		b. antarctic					
c. desert		d. tropical rain forest					

a. leaves color.

27. An area between buildings that contains gras	ses, insects and weeds represents					
a. a large ecosystem.	b. a small ecosystem.					
c. structural characteristics.	d. physical characteristics.					
28. All the following are biotic factors, except						
a. animals. b. insects.	c. precipitation. d. grasses.					
29. Abiotic factors in an ecosystem include						
a. animals and air.	b. grasses and soil.					
c. living organisms.	d. nonliving things.					
30. Plants, animals and water are						
a. biotic factors only.	b. abiotic factors only.					
c. biotic and abiotic factors.	d. behavioral characteristics.					
31. The plant's growth is affected by						
a. amount of darkness.	b. intensity of light only.					
c. duration of light only.	d. intensity and duration of light.					
32. Transferring of some properties from paren	its to offspring occurs in					
a. living organisms only.	b. nonliving things only.					
c. living organisms and nonliving things.	d. soil, air, water and sunlight.					
33. The genetic factors transfer from						
a. living organism to nonliving thing.	b. nonliving thing to living organism.					
c. parents to their offspring.	d. offspring to their parents.					
34. Transferring of genetic factors happens in						
a. humans only.	b. animals only.					
c. humans and animals.	d. humans, animals and plants.					
35. Appearance of inherited traits on offspring, is	s due to passing down from their					
parents.						
a. environmental factors	b. behaviors					
c. genetic factors	d. leaves					
36. All the following are inherited traits in plants, except						

5 Mr.Ahmed ElBasha Mob. 01153233911

b. leaves shape. c. length of stem.

d. length of ears.

*****(3) Complete the following:

1.	The scientist	who studies t	he Earth's	atmosphere is	called

2. The side of coastal mountain ranges in which air moves up when hitting a mountain is the side, while the other side is the side.

3. Farmers in desert may use the energy produced from the Sun to power their farms.

4. As you climb to the top of a mountain, the air density will while as you move down toward the bottom of it, the air temperature will

- 5. At night, the sand on the seashore cools than the sea water.
- **6.** When air is heated, the air will rise above the air.
- 7. The horizontal movement of air is called, whereas the vertical movement of air is called
- 8. Some desert plants have thick leaves to store
- 9. Living organisms of an ecosystem include humans, animals and
- 10. Any ecosystem contains factors and factors.
- 11. Abiotic factors includes all things.
- 12. Plants respond to the amount of and dark they receive daily to grow.
- **13.** All living organisms inherited factors which transferred from parents to their offspring.

*(4	4) <u>Put</u>	t (√) or	(X):
	,	_			_

1.	The rain never falls on deserts.	()
2.	People in desert areas face a lot of challenges in desert farming.	()
3.	The air becomes more dense at the top of the mountain compared to the bottom of	of the	
	mountain.	()
4.	Precipitation occurs after condensation of water vapor in the sky .		1
5.	Solar energy and wind turbines can be used to operate desert farms.	K	7
6.	Reusing water is a useful way to irrigate crops in desert farms)
7.	The sand absorbs heat slower than water during daytime.	()
8.	Sand cools down in a shorter time than sea water during nighttime.	()
9.	When rain doesn't fall, soil may dry and plants may die.	()
10	.By increasing the temperature of air, its density increases.	()
11	.Sand cools down in a shorter time than sea water during nighttime.	()
12	.If the temperature of the sand in a desert is 42°C at noon, its temperature may re-	ach 55	°C
	at night.	()
13	.Heavy rain may cause drought.	()
14	.When rain doesn't fall, soil may dry and plants may die.	()
15	Although flooding is harmful, it also has some benefits.	()
16	Sandstorms decrease the visibility during driving cars.	()
17	Floods may cause death of people and animals.	()
18	Cold air has more density than hot air.	()
19	.By increasing the temperature of air, its density decreases.	()
20	. When the air is cooled, it rises up.	()
21	.Hot air rises above colder air.	()
22	All living organisms inherited traits from their parents.	()
23	Inherited traits not affect the structure of living organisms.	()
24	Transferring of inherited traits through generations of desert plants, make them r	nore	
	adapted to survive in extreme desert conditions.	()

Science Second Term 2023/2024		Grade 6	
25.Environmental and go	enetic factors affect the behaviors, structure and the growt	h of liv	ing
organisms.		()
26.Different types of env	vironments have different types of plants and animals.	()
27. Acacia trees and paln	ns are adapted to live in desert environment.	()
28. Ecosystems include l	iving organisms only.	()
29.Ecosystem contains b	piotic factors and abiotic factors.		7
30. Abiotic factors of an	ecosystem can eat, breathe and grow.		5
31.Biotic factors of an ed	cosystem include sunlight, air and water.	()
32. Abiotic factors affect	the growth and the adaptation of biotic factors.	()
33. The amount of light a	affects the growth of plants.	()
34.Deserts may be hot as	reas or cold areas.	()
35. Antarctica is a hot de	sert biome.	()
36. The light is one of the	e biotic factors, which affects the plant's growth.	()
37. The intensity and dur	ration of light affect the plant's growth.	()
38. It is easy for animals	to live in the desert environments.	()
39. Thorns on a plant ster	m, is an example of structural adaptation.	()
40. Animals migrate from	n one place to another seasonally.	()
41. Migratory birds are a	ffected by environmental factors during their migration	()
42.In our world there are	e different kinds of environments.	()
43. Water and air are from	m biotic factors in an ecosystem.	()
44. Abiotic factors have i	important role in growth of living organisms.	()

	Science	Second Term 2023/2024	Grade
*	(5) Give reaso	n for:	
1.	Desert farming faces	many difficulties.	
2.	Sometimes people pr	refer to live in desert land instead of cities.	
3.	Hot air moves up, wh	nile cold air moves down.	
4.		ame more stronger in many places around the world.	?
5.	Floods have some be		
6.	Falcons and eagles m	nigrate to Egypt in winter.	9
7.		ed with sandy-colored scales.	
8.	_	ve in desert environment have long roots.	
9.	Your lifestyle choice		
	☀ (6) <u>What ha</u> j		
1.	. The atmospheric pre	essure, as we move up toward the top of a mountain.	
2	Air density as we m	nove down toward the bottom of a mountain	

1.	The atmospheric pressure, as we move up toward the top of a mountain.
2.	Air density, as we move down toward the bottom of a mountain
3.	The temperature of a desert sand at night.
4.	We boil water in a pot on the stove. (Concerning the movement of hot water and cold water).
5.	Solar panels when dust accumulates on them.

7. The inherited traits are transferred from desert plants to another through generations.

6. The living organisms in an ecosystem, if water and light are not available.

.....

*(7) Complete the following sentences by using these words:

1.	(weather maps – humidity- barometer)
1.	The instrument that measures the atmospheric pressure is called
2.	Meteorologists use to collect and analyze data from different places and
ov	er short periods of time.
3.	The measure of how much water vapor is present in the air is called
2.	(barometer - rain gauge - weather radar - anemometer)
1.	To know the speed of a tornado's winds, the meteorologist should use
2.	To know whether it rained more this summer or last summer, the meteorologist should
us	e
3.	To know the possible path of a hurricane, the meteorologist should use the data from a
we	eather satellite carrying a
4.	To know the current atmospheric pressure, the meteorologist should use
3.	(flooding - drought - decrease - increase - abiotic)
1.	Extreme hot temperatures may cause
2.	Heavy rain may cause
3.	Sandstorms the chances of car accidents.
4.	Dust storms the water quality in irrigation canals.
5.	Light is an environmental factor.
3. 4.	Sandstorms the chances of car accidents. Dust storms the water quality in irrigation canals.

*(8) Choose from column (B) what suits it in column (A):

1.

(A)	(B)
1. Leaves shape trait	a. inherited in animals.
2. Fur length trait	b. inherited in humans.
3. Nose shape trait	c. inherited in plants.
4.	d. inherited in animals and plants.

1.

2.

3.

2.

(A)	(B)
1. Structural adaptation	a. is an example of structural adaptation.
2. Behavioral adaptation	b. like growth of plant toward light.
3. Bird migration	c. is an ecosystem.
4. Thorns on a plant stem	d. like thick fur of animals that live in cold areas.
	e. is an example of behavioral adaptation.

1.

2.

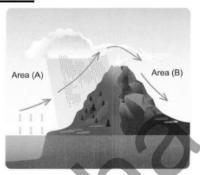
3.

4.

*****(9) TRY TO ANSWER:

1	T	4 41	C II ·	•	4 1		41			
100		at the	tollowing	TIGHTE	then	complete	the	contoncos	nein	43/*
1.	LUUR	at the	IUHUWIHZ	meuic.	LIICII	Complete	unc	sentences	DUID	** .

- 1. The air in area is dry.
- 2. Condensation of air occurs in area
- 3. Precipitation occurs in area
- **4.** The air in area is wet.



2. Look at the following picture that shows the using of concrete in regions with hot summers and cold winters, then choose the correct answer:

- 1. The temperature inside the building is regulated by absorbing energy during the day and releasing it at night.
- a. chemical

b. sound

c. thermal

- d. magnetic
- 2. When sunlight falls on the concrete, its temperature ...
- a. increases.

b. doesn't change.

c. decreases slowly.

d. decreases quickly.



3. Complete the following sentences by using the words between brackets:

(hot - cold - increases - decreases)

- 1. When the air is heated inside the balloon, the air in volume.
- 2. As the temperature increases, the density of air inside the balloon
- **3.** A balloon rises up because the air inside the balloon is lighter than the air surrounding the balloon.



4. Classify the following inherited traits in the table below:

(Hair length - Leaves shape - Place of the flower - Fur color - Leaves color - Eye color -Ears shape - Flower color - Plant length)

	Animals	Plants
Inherited		
traits		

5. Study the following two pictures, then answer the following questions:

Di State, the lone will the steel es, then					
(A) Put (✓) or (X):					
 Animals in both pictures need food, water and habitat to survive. 	()	3		
2. The animal in picture (B) has a body					
color helps it to survive in its desert environment.	()	Picture (A)	45.4	
Animals in both pictures have a body size similar to its parents.	()		V	
(B) If you know that the bird in picture (A)	is		- 10		
a migratory bird, write 2 reasons for its	migr	ation:	Picture (B)		
a				ř	
b					
6.	4	()			
Study the following pictures, then put (🗸)	or (x	():			
(1) (2)		(3)	(4)		
1. The four pictures show some biotic facto	rs and	d some	abiotic factors.	()
2. The four pictures show some biotic facto	rs tha	t live in	three different		
environments.				()
3. The animal in picture number (2) lives in	an er	nvironme	ent that suffers from	n	
shortage of water, while the environment	in wh	nich the	animal in picture n	umbe	er
(3) lives has a lot of water.				()
4. Animals in pictures numbers (2) and (4)	can't	ive in th	e same environme	nt,	
while living organisms in pictures numbe					
environment	. /	(-/		()

5. Caribou can live in the same environment in which the animal in picture

number (4) lives.

Model Answer

* (1) Write the scientific term:

1.	Meteorologist	5.	Atmospheric	8.	Adaptation	11.	Biotic factor
2.	Wet side		pressure	9.	Bird migration	12.	Abiotic factor
3.	Barometer	6.	Precipitation	10.	Structural		
4.	Thermometer	7.	Floods		adaptation		

*(2) Choose the right answer:

1. C	9. D	17. D	25. B	33. C
2. A	10. C	18. D	26. D	34. D
3. C	11. A	19. A	27. B	35. C
4. B	12. A	20. B	28. C	36. D
5. D	13. B	21. C	29. D	
6. A	14. A	22. B	30. C	
7. B	15. B	23. A	31. D	
8. B	16. A	24. D	32. A	

*(3) Complete the following:

1.	Meteorologist	4.	Decrease -	7.	Wind –	9. Plants	12. Light
2.	Wet-dry		increase		convection	10. Biotic –	13. Genetic
3.	Solar	5.	Faster		current	abiotic	
		6.	Hot - cold	8.	Water	11. Non-living	ļ

*(4) Put ($\sqrt{}$) or (X):

1. (X)	9. (√)	17. $(\sqrt{\ })$	25. (\forall)	33. (√)	41. (√)
2. (√)	10. (X)	18. (√)	26. (√)	34. (√)	42. (√)
3. (X)	11. (√)	19. (√)	27. (√)	35. (X)	43. (X)
4. (√)	12. (X)	20. (X)	28. (X)	36. (X)	44. (√)
5. (√)	13. (X)	21. $(\sqrt{\ })$	29. (√)	37. (√)	25 - 25
6. (√)	14. (√)	22. (√)	30. (X)	38. (X)	
7. (X)	15. (√)	23. (X)	31. (X)	39. (√)	
8. (√)	16. (V)	24. (\(\sqrt{)} \)	32. (√)	40. (√)	

*(5) Give reason for:

- 1. Because the desert's climate is hot and the amount of water is small.
- 2. Due to the fast population growth in cities.
- 3. Because the hot air has low density, while the cold air has high density.
- 4. Due to global climate change
- 5. Because some ecosystems depend on floods such as ecosystems along the Nile.
- 6. Because Egypt in winter has a moderate climate conditions.
- 7. To hide among rocks in desert.
- 8. To get the deep groundwater.
- 9. Because it depends on your behavior which may be good habits or bad habits.

*(6) What happen if:

- 1. The atmospheric pressure decreases.
- 2. Air density will increase.
- **3.** The temperature of a desert sand will decrease.
- 4. Hot water moves up and cold water falls down.
- **5.** Solar panels stop generating energy.
- 6. Living organisms can 't survive and will die.
- 7. The desert plants are more adapted to survive in extreme desert conditions.

*(7) Complete the following sentences by using these words:

1.

- 1. Barometer
- 2. weather maps
- 3. humidity

2.

- 1. anemometer
- 2. rain gauge
- 3. weather radar
- 4. barometer

3.

- 1. drought
- 2. flooding
- 3. increase
- 4. decrease
- 5. abiotic

*(8) Choose from column (B) what suits it in column (A):

1. 1. c			
1 c	2. a	3 h	

1. d 2. b 3. e

*****(9) TRY TO ANSWER:

1.

- 1. B 2. A 3. A 4. A
- 2.
- 1. c 2. a
- 3.

1. increase

- 2. Decrease 3. hot cold
- 4.
- Animals: Hair length Fur color Eye color Ears shape
- Plants: Leaves shape Place of the flower Leaves color Flower color Plant length
- 5.

A-

- **1.** (√)
- **2.** (√)
- 3. $(\sqrt{\ })$

В-

- a. search for food
- b. search reproduction

6.

- **1.** (√)
- 2. $(\sqrt{})$
- 3. (X)
- 4. (
- 5. (X)





Concept 3.2

1.	Choose the correct answer: -
1.	At the top of the mountain, the atmospheric pressure is and the temperature is
	compared to the bottom of the mountain.
8	Lower - lower b. higher - higher c. higher - lower d. lower - higher
2.	A rain shadow is an area that is formed behind a
8	a. Tree b. mountain c. building d. bridge
3.	If the temperature at the bottom of a mountain is 15°C, this means it may reach °C at the top
	of this mountain.
	a. 30 b. 25 c. 20 d. 2
	Water vapor in the atmosphere can condense and form
	a. Air b. clouds c. sunlight d. wind
2.	Put (√) or (×):-
1.	People in desert areas face a lot of challenges in desert farming. ()
2.	Precipitation occurs after condensation of water vapor in the sky. ()
	The properties of the atmosphere at the top of the mountain and at its bottom are similar ()
4.	When the hot and humid air meet the cold and dry air, the hot air rises ()
3.	Write the scientific terms of each of the following:-
1.	A scientist who studies the atmosphere to understand Earth's weather ()
2.	A side of mountain ranges at coastal regions that faces the coast ()
3.	A side of mountain ranges at coastal regions in which the rain shadow phenomenon occurs ()
4.	Give reason for:-
	Sometimes people prefer to live in desert land instead of cities.
_	
Э.	What happen to?
1.	The atmospheric pressure, as we move up toward the top of a mountain.
,	
6.	complete the following sentence:-
1.	
2.	The scientist who studies the earth's atmosphere is called
3.	Farmers in desert may use the energy produced from the sun to power their farms

1. Choose the correct answer:-
1. The barometer is used to measure
a. air temperature. b. atmospheric pressure c. mass. d. length.
2. Heat transfers from the object to the object.
a. big – small b. small – big c. hot-cold d. cold-hot
3. Land heats up and cools down compared to that of water.
a. quickly - quickly b. slowly - slowly c. slowly - quickly d. quickly - slowly
4. If the temperature of sand in a desert is 50°C at noon, its temperature may reach°C at night.
a. 20 b. 60 c. 70 d. 80
2. Put (√) or (×):-
The sand absorbs heat slower than water during daytime. ()
2. Sand cools down in a shorter time than sea water during nighttime. ()
3. Mapping data allows meteorologists to represent data about weather conditions. ()
 Write the scientific terms of each of the following: A scientist who studies the Earth's atmosphere and forecasts the weather. A device used to measure temperature. It is the weight of the air above an area. Give reason for:- At noon, we may not be able to stand barefoot on the sand of a beach in summer, but we can swim in the sea water The temperature of a desert sand at night Look at the following picture that shows the using of concrete in regions with
hot summers and cold winters, then choose the correct answer:- 1. The temperature inside the building is regulated by absorbing energy during the day and
releasing it at night. a. Chemical b. sound
c. thermal d. magnetic
When sunlight falls on the concrete its temperature



1.	Choose the correct answ	ver:-	
111111	Convection is a way of transfer	The same and the s	es due to the difference
	in and		
a	mass color b. shape volum	ne. c. temperature - density	d. color temperature.
2.	Heat transfers by convection ir	ı and	
a	liquids gases. b. solids liq	uids. c. solids - gases.	l. liquids space.
3.	Convection currents in the atm	osphere are controlled by	
a	precipitation.	b. moon's rotation.	
c	the energy from the Sun.	d. Earth's rotation.	
4.	Heat is transferred through the	atmosphere by	
	convection. b. conduction		
5.	When air is heated, its	changes.	
a	Mass b. smell	c. color d. d	ensity
2.	Put (√) or (×):-		
	Cold air has more density than ho	ot air. ()	
2.	By increasing the temperature of	air, its density decreases. ()	
	When the air is cooled, it rises up		
	Hot air rises above colder air. (
		,	
5.	Transfer of heat by convection or	ecurs in solids, liquids and gases.	()
3. (Choose from column (B)	what suits it in column	(A):-
	(A)	(B)	
		easuring the atmospheric pressur	e
		easuring the wind speed easuring the intensity of precipita	ation
		easuring the amount of rain	atton
	-		
	1	2	3
4	Sive reason for:-		
	When air is heated, it expands.		
	, non an is neared, it expands.		
5.	What happen to?		
all Armed Self	and the second s	tove. (Concerning the movem	ent of hot water and cold water)

drought

Affected by

5 | Page



Exam on lesson 4

Exam on resson 1	
1. Choose the correct answer:- 1. Extreme weather conditions include all the following, except	
a. drought b. flooding. c. sandstorms. d. sunrise.	
2. The increase in the amount of rain may cause	
a. flooding. b. drought. c. sandstorm. d. dust storm,	
3. Drought affects all the following, except	
a. people. b. plants. c. buildings. d. animals.	
4. If a driver's visibility range in sunny weather is up to 5 km, the visibility range may	
reach in stormy weather.	
a. 1 Km or less b. 6 Km c. 8 Km d. 10 Km	
2. Put (√) or (×):-	
1. Heavy rain may cause drought. ()	
2. Although flooding is harmful, it also has some benefits. ()	
3. Sandstorms blow up from a dry area such as seas and oceans. ()	
4. Floods may cause death of people and animals. ()	
5. Dust storms have harmful effects on the plane engines. ()	
 Write the scientific terms of each of the following: - A phenomenon in which the condensed water vapor falls on the Earth's surface in the form of rain, snow, sleet or hail. (rs.
1. Buildings when they are subjected to strong floods.	
2. Solar panels when dust accumulates on them.	ı
6. Classify the following extreme weather conditions in Ven diagram below using the sentences between brackets:-	l
(harmful to habitat – overflow of water – shortage of water – animals and humans are affected – the land	
becomes wet – the land becomes dry)	1
Too much Too little	J
•both	
•	

flood



Model Exam Concept 3.2

Choose the correct answer:-

1.	The density of cold dry a	ir is that of hot	humid air	
a.	More than b. equal	to c. less than	d, similar to	
2.	Heat transfers from the	object to	theo	bject
a.	Big – small b. hot	− cold c. small − b	ig d. cold – hot	
3.	When air is heated, its	changes	S	
a.	Smell b. color	c. density	d. mass	
	Drought affects the follow	wing, except		
	Animals b. plants			
		ge in sunny weather is u	up to 5 km, the visib	ility range may reach
	in stormy weather.			
			d. 10 Km	
	Heat is transferred throug			
10	convection. b. cond		1	
1. C	hoose from colum	n (B) what suits	it in column (A	A): -
	(A)		(B)	
	1. Anemometer	a. Measuring the atm		
	2. Weather radar	b. Measuring the wi	-	2200
	3. Rain gauge	c. Measuring the int		011
	5. Kalli gauge	d. Measuring the am		on
	1	d. Measuring the am		3
2. P	1	d. Measuring the am	nount of rain	
	1ut (√) or (×):-	d. Measuring the am	nount of rain	
1.	1	d. Measuring the am 2 fil may dry and plants n	nount of rain may die ()	
1. 2. 1	1	d. Measuring the am 2 fil may dry and plants n ature of air, its density	may die () increases ()	3
1. 2. 1	1	d. Measuring the am 2 fil may dry and plants n ature of air, its density	may die () increases ()	3
1. 1 2. 1 3. 1	1	d. Measuring the am 2 fil may dry and plants n ature of air, its density and the sea water	may die () increases () r during nighttime (3
1. 2. 1 3. 3 4. 7	1	d. Measuring the am 2 fil may dry and plants n ature of air, its density and orter time than sea water osphere at the top of th	nay die () increases () r during nighttime (e mountain and at its	3
1. 2. 3 3. 3 4. 7	1	d. Measuring the am 2 foil may dry and plants notature of air, its density arter time than sea water osphere at the top of the complex terms of each	nount of rain may die () increases () r during nighttime (e mountain and at its of the followi	3
1. 2. 1 3. 3 4. 7 1. 4	1	d. Measuring the am 2 foil may dry and plants not ature of air, its density is density in the time than sea water osphere at the top of the cterms of each es of coastal regions the	may die () increases () r during nighttime (e mountain and at its of the follow at faces the coast (3
1. 2. 3. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4.	1	d. Measuring the am 2 foil may dry and plants in ature of air, its density in order time than sea water osphere at the top of the c terms of each es of coastal regions the e atmospheric pressure	nay die () increases () r during nighttime (e mountain and at its of the following traces the coast (3
1. 1 2. 1 3. 4 4. 7 1. 4 2. 4 3. 1	1	d. Measuring the am 2 foil may dry and plants in ature of air, its density in ature of the complete at the top of the complete at the top of the each es of coastal regions the eatmospheric pressure above an area (nay die () increases () r during nighttime (e mountain and at its of the following traces the coast (3
1. 1 2. 1 3. 4 4. 1 1. 4 2. 4 4. 1	1	d. Measuring the am 2 foil may dry and plants in ature of air, its density in ature of the complete at the top of the complete at the top of the each es of coastal regions the eatmospheric pressure above an area (nay die () increases () r during nighttime (e mountain and at its of the following traces the coast (3



4. (Complete the following sentence:-
	(flooding - drought - decrease - increase - dry- wet)
	Extreme hot temperatures may causes
	Heavy rain may cause
	Sandstorms the chances of car accidents
	Dust storms the water quality in irrigation canal
	Floods result in formation of lands
	Strong winds may blow up sand from a area such as deserts
S-am	Give reason for:-
1.	Extreme weather became more danger in many places around the world
2.	Formatting of fog in the early morning
6.V	What happen to?
1.	The atmospheric pressure, as we move up toward the top of a mountain
2	Air density, as we move down toward the bottom of a mountain
	7.11 delien, 7, de we meve dem renar a me estrem e a medinam
7.1	The following diagram shows the steps of rain shadow phenomenon,
con	nplete the following steps using the words below:-
	(rises – descends – cools – warms – condenses)
	humid air belows against a mountain
	air (1), then it (2)
	air (3), then precipitation occures
	air (4), then it (5)
7 I D	age
* I !	

air dries the land



Concept 4.1

Fxam on lesson 1

C	hoose the correct ar	swer:-	
1. I	Oorcas gazelle lives in		
a.	tropical area. b. desert	area. c. north pole. d. south pole.	
2. 7	The adaptation that is related	to the body structure of a living organism, is known as	
a.	structural adaptation. b. be	havioral adaptation. c. homeland. d. stopover.	
3. I	Birds migrate to search for al	of the following, except	
a.	best conditions for reproduc	tion. c. different food resources.	
b.	another suitable habitat.	d. another unsuitable climate.	
4. I	Photosynthesis process is affe	cted by some environmental factors such as	•
a	a. availability of water only.	b. availability of light only.	
C	e. availability of water and lig	tht. d. the length of the plants.	
5. 7	The Red Sea in Egypt include	s all of the following environments, except environment.	
a	. marine b. mountain	c. rain forest d. coastal	
Choose from column (B) what suits it in column (A):-			
	(A)	(B)	
	Structural adaptation	a. Is an example of structural adaptation	
	2 Debesies 1 - 4	1. Tiles amount of alout towns 11:-14	

(A)	(B)
Structural adaptation	a. Is an example of structural adaptation
2. Behavioral adaptation	b. Like growth of plant toward light
3. Bird migration	c. Is an ecosystem.
4. Thorns in a plant stem	d. Like thick fur of animals that live in cold areas
	e. Is an example of behavioral adaptation

		The state of the s	
1	2	3	4

Put (√) or (×):-

- 1. It is easy for animals to live in the desert environments. (
- 2. Animals migrate from one place to another seasonally. (
- 3. Birds migrate to areas that have no food or water. ()
- 4. Dorcas gazelle can live in both desert area and semi-desert area. ()
- 5. Migratory birds are affected by environmental factors during their migration. ()

Primary 6 March revision

	Write the scientific terms of each of the following:- It is a type of behavioral adaptation in which animals move in a certain season from one place to
	another. ()
2.	An important stopover in Egypt for migratory birds, that includes marine, coastal and mountain
	environments. ()
3.	It is a change in the behaviors or acts of a living organism to help it survive. ()
Î	Give reason for:-
1.	Falcons and eagles migrate to Egypt in winter
	6.What happen to?
1.	The environmental conditions changes in the homeland in which some migratory birds live
	Exam on lesson 2
	Choose the correct answer: - Each environment on planet Earth has specific
	climate only. b. plants only. c. animals only. d. climate, plants and animals.
	Poison dart frog lives in environment.
	. arctic b. Antarctic c. desert d. tropical rain forest
3.	All the following are biotic factors, except
a	. animals. b. insects. c. precipitation. d. grasses.
4.	Abiotic factors in an ecosystem include
	. animals and air. b. grasses and soil. c. living organisms. d. nonliving things.
	Plants respond to the amount of they receive daily.
	. light only b. dark only c. light and dark d. biotic factors
_	Put () or (×):-
1.	The skin of poison dart frog cannot protect it from predators. ()
2.	Ecosystem contains biotic factors and abiotic factors. ()
3.	Abiotic factors of an ecosystem can eat, breathe and grow. ()
4.	Biotic factors of an ecosystem include sunlight, air and water. ()
5.	Deserts may be hot areas or cold areas. ()

Mr. science



6.	Chrysanthemum plant can produce flowers when the nights are longer than days. ()		
3.\	Write the scientific terms of each of the following:-		
1. 2.	The factors that include nonliving things in an ecosystem. (
4. (1. 2.	African penguin has a circle of skin that doesn't have any feather around each of its eyes. Some plants in deserts produce seeds that can live for a long time		
5.\	What happen to?		
1.	The plants in an ecosystem, if they receive too intense light.		
6.9	Study the following picture then put () or (×):-		
1.	(1) (2) (3) (4) The four picture show some biotic and abiotic factors	()
2.	P		
	The four picture show some biotic factors that live in three different environment	()
3.	The four picture show some biotic factors that live in three different environment The animal in picture (2) live in an environment that suffers from shortage of water, while the	()
3.		()
3.4.	The animal in picture (2) live in an environment that suffers from shortage of water, while the	(ture	
3.4.	The animal in picture (2) live in an environment that suffers from shortage of water, while the environment in which the animal in picture (3) lives has a lot of water	(hure	



	1. Choose the correct diswer:-
	1. All the following are inherited traits in humans, except
	a. eye color. b. nose shape. c. fur color. d. ear shape.
	2. Appearance of inherited traits on offspring, is due to passing downfrom their parents
a.	environmental factors b. behaviors c. genetic factors d. leaves
	3. Birman cats have
	a. very fine hair. b. long and silky hair. c. no hair. d. black feathers.
	4. All the following are inherited traits in plants, except
	a. leaves color. b. leaves shape. c. length of stem. d. length of ears.
	5. Bad habits in humans lifestyle include
	a. eating healthy food b. doing exercises c. drinking more soda d. avoid smoking.
	6. Genes are tiny structures that found in
	a. the cell nucleus b. the cell membrane c. the cell wall. d. mitochondria
	2. Put $()$ or (\times) :-
	1. Inherited traits not affect the structure of living organisms. ()
	2. Sphynx cat doesn't have any hair or have only very fine hair. ()
	3. All birman cats have white, very short and silky hair. ()
	4. Inherited traits in sphynx cats include hairless body, eye color and ear shape. ()
	5. Your health will be positively affected, if you drink unclean water. ()
	3. Write the scientific terms of each of the following:-
	1. It is the factor that controls which traits get inherited from parents to their offspring.
	()
	2. They are external factors that affect our health and we might not able to control them.
	()
	3. They are responsible for determining the body feature, and present in the cell nucleus.
	()
	4. Complete the following sentence:-
	1. The types of cats that inherits its hairless body from its parents, is known as cat
	2. Sphynx cat doesn't have the genetic factors forwhich is found in cat
	3. Colour and place of the flower are two inherited in plant
	11 Page



4. (Give reason for:-
1.	Your lifestyle choices affect your health.
4	
5. \	What happen to?
1.	The inherited traits are transferred from desert plants to another through generations
	Model Exam Concept 4.1
1.	Choose the correct answer:-
1.	Poison dart frog lives in environment
2	a. arctic b. Antarctic c. desert d. tropical rain forest The red sea in Egypt includes all of the following environments except environment
۷.	a. marine b. mountain c. rain forest d. coastal
3.	Genes are tiny structures that found in
	a. The cell nucleus b. the cell membrane c. the cell wall d. mitochondria
4.	Acacia tree and arctic fox live in
	c. rain forest environment d. two different environments
2. (Choose from column (B) what suits it in column (A):-
	(A) (B)
	Acacia tree a. It has sandy-colored scales
	2. Poison dart frog b. It has thick white fur
	3. Emperor penguin 4. Arctic fox c. It lives in Antarctic d. It lives in desert
	e. It lives in tropical rain forest
1.	
Put	() or (*):-
1.	Dorcas gazelle can live in both desert area and semidesert area ()
2.	Around each eye of emperor penguin, there is circle of skin that doesn't have any feathers ()
3.	Inherited traits in sphynx cats include hairless body, eye color and ear shape ()
	at the state of

Mr. science sherif hawary مقدمة مجانا مع الشرح من قناة مستر ساينس



4.	Migratory birds are affected by environmental factors during their migration ()
5.	Abiotic factors affect the growth and the adaptation of biotic factors ()
6.	All birman cars have white, very short and silky hair ()
7.	Availability of water is a genetic factor that affects the growth of trees and shrubs in an ecosystem (
	The amount of light affects the growth of plants ()
3. \	Write the scientific terms of each of the following:-
1.	It is a type of behavioral adaptation in which animals move in a certain season from one place to
	another ()
2.	It is a desert biome that has a cold climate all the year ()
3.	They are responsible for determining the body feature, and present in the cell nucleus.
	()
	Complete the following sentence:-
1.	All living organisms inherit factors which transferred from parents to their offspring
2.	Thick fur is an example of structural adaptation for animals that live in climate
3.	Some plants like palms and acacia trees live in the environment in Egypt
4.	Sphynx cat doesn't have the genetic factor for which is found in cat
5. (Give reason for:-
	Some plants which live in desert environment have short extended roots near the earth's surface
	*
2.	African penguin has a circle of skin that doesn't have any feather around each of its eyes
6. \	What happen to?
A	Living organisms in an ecosystem, if water and light are not available
2.	The environmental conditions changes in the homeland in which some migratory birds live

Primary 6 March revision

7. Look at the opposite figure, then complete the following sentence:-







Photo no. (2)



Photo no. (3)

Complete the following sentences:-

1. Photo number (......) and (.....) represent bad habits

Mr. science

2. Photo number (.....) represents a good habit

B. Put $(\sqrt{})$ or (\times) :-

- 1. Photo number (3) represents an environmental factor that positively affect human health ()
- 2. Photo number (1) and (2) are related to genetic factors ()
- 3. Photo number (2) and (3) are represent good lifestyle choices ()
- 4. All photo show habits that have different effects on the human health ()

Give the reason.

- 1- Desert farming faces many difficulties Because the desert's climate is hot, and the amount of water is small
- 2- Sometimes people prefer to live in desert land instead of cities
 - Due to the fast population growth in cities
- 3- Hot air moves up while cold air moves down Because hot air has low density while cold air has high density
- 4- At noon, we may not be able to stand barefoot on the sand of a beach in summer, but we can swim in the sea water
 - Because sand is heated up faster than water
- 5- When air is heated, it expands
 Because the molecules of air move away from
 each other
- Extreme weather became more stronger in many places around the world
 Due to global climate change
- 7- Floods have some benefits
 Because some ecosystems depend on floods such
 as ecosystems along the Nile





- 8- Sandstorms have harmful effects on human health Because they harm the human eyes and respiratory system
- 9- Small Dorcas gazelle is similar to its parents
 Because they get some genetic factors from their
 parents
- 10- falcons and eagles migrate to Egypt in winter because Egypt in winter has a moderate climate condition
- 11- birds migrate from one place to another place to search for the best conditions that help them reproduce
- 12- African penguin has a circle of skin that does not have any feather around each of its eyesTo help its body cool fast in hot climate
- 13- Most of desert plants have short extended roots near the Earth's surface
 To absorb any available water and to catch the smallest drops of dew
- 14- Some plants in deserts produce seeds that can live for a long time
 Because in deserts there are shortage of rainfall for a long time





- 15- Poison dart frog has colorful poisonous skinTo protect itself from predators
- 16- Lizard body is covered with sandy colored scales To hide among rocks in desert
- 17- Some plants which live in desert environment have long roots
 - To get the deep groundwater
- 18- A Birman kitten has long and silky hair Because it inherits this trait from its parents
- 19- Sphynx cats does not have long hair Because it does not have the genetic factor for long hair
- 20- Your lifestyle choices affect your health Because it depends on your behavior which may be good habits or bad habits

What happens to/if?

- The atmosphere pressure, as we move up toward the top of a mountain
 The atmosphere pressure decreases
- 2- Air density as we move down toward the bottom of the mountainAir density will increase





- 3- The temperature of water inside a beaker if we put it under a lighted lamp for few minutes

 The temperature of water will increase
- 4- The temperature of a desert sand at night The temperature of a desert sand will decrease
- 5- We boil water in a pot on the stove (concerning the movement of hot water and cold water)

 Hot water moves up and cold water falls down
- 6- Buildings when they are subjected to strong floods
 They may be damaged by moving or breaking
 them
- 7- Solar panels when dust accumulates on them Solar panels stop generating energy
- 8- If the environmental conditions change in the homeland in which some migratory birds live They will migrate to another suitable habitat
- 9- To the living organisms in an ecosystem, if water and light are not available Living organisms cannot survive and will die
- 10- To the plants in an ecosystem, if they receive too intense light
 - Plant parts may be damaged, dried or burned





- 11- To two similar plants, if they are exposed to the same intensity and duration of light

 The two plants will grow with same rate
- 12- If the genetic factor of hairless body trait is transferred from sphynx cats parents to their offspring

The trait of hairless body appears on the offspring

13- If the inherited traits are transferred from desert plants to another through generations

The desert plants are more adapted to survive in extreme desert conditions



